

## WEST Search History

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DATE: Monday, October 18, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	neuropeptide receptor	429
<input type="checkbox"/>	L13	L12 AND neuropeptide receptor	78
<input type="checkbox"/>	L12	530/300,350.CCLS.	17143
<input type="checkbox"/>	L11	Rosen.IN.	6423
<input type="checkbox"/>	L10	Rosen-C.IN.	19
<input type="checkbox"/>	L9	Rosen-C-A.IN.	590
<input type="checkbox"/>	L8	Rosen-Craig.IN.	10
<input type="checkbox"/>	L7	Rosen-Craig-A.IN.	657
<input type="checkbox"/>	L6	Li.IN.	54090
<input type="checkbox"/>	L5	Li-Y.IN.	4340
<input type="checkbox"/>	L4	Li-Yi.IN.	240
<input type="checkbox"/>	L3	Soppet.IN.	289
<input type="checkbox"/>	L2	Soppet-D.IN.	5
<input type="checkbox"/>	L1	(Soppet-Daniel.IN.)	2

END OF SEARCH HISTORY



# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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## Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20020081301 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 2

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081301

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081301 A1

TITLE: Cancer gene determination and therapeutic screening using signature gene sets

PUBLICATION-DATE: June 27, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Soppet, Daniel</u>	Centreville	VA	US	

US-CL-CURRENT: 424/155.1; 435/6, 514/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Des
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☐ 2. Document ID: US 6338951 B1

L1: Entry 2 of 2

File: USPT

Jan 15, 2002

US-PAT-NO: 6338951

DOCUMENT-IDENTIFIER: US 6338951 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: G-protein parathyroid hormone receptor HLTDG74

DATE-ISSUED: January 15, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Soppet, Daniel</u>	Centreville	VA		
Li; Yi	Gaithersburg	MD		
Rosen; Craig A.	Laytonsville	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 435/69.1; 435/69.7, 514/12, 530/324, 530/350, 530/395, 530/402

### ABSTRACT:

Human G-protein parathyroid hormone (PTH) receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by

h e b b g e e e f e h e h e f b e



recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the PTH receptor receptor polypeptides. Also disclosed are diagnostic methods for detecting a mutation in the PTH receptor receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

22 Claims, 10 Drawing figures

Exemplary Claim Number: 1,16

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
(Soppet-Daniel.IN.)	2

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# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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## Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040115625 A1, WO 200194629 A2, AU 200164559 A, US 20020081301 A1, US 20020102531 A1, US 20020102532 A1, US 20020110821 A1, US 20020115057 A1, US 20020115085 A1, US 20020150877 A1, US 20020165180 A1, US 20030165839 A1, EP 1358349 A2, JP 2004509612 W

Using default format because multiple data bases are involved.

L2: Entry 1 of 5

File: DWPI

Jun 17, 2004

DERWENT-ACC-NO: 2002-188264

DERWENT-WEEK: 200440

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TITLE: Screening for anti-neoplastic agent involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gene set

INVENTOR: AUGUSTUS, M; CARTER, K C ; EBNER, R ; ENDRESS, G ; HERRIGAN, S ; SOPPET, D R ; WEAVER, Z ; YOUNG, P E ; SOPPET, D ; YOUNG, P

PRIORITY-DATA: 2000US-245084P (November 1, 2000), 2000US-209473P (June 5, 2000), 2000US-209531P (June 5, 2000), 2000US-233133P (September 18, 2000), 2000US-233617P (September 18, 2000), 2000US-234009P (September 20, 2000), 2000US-234034P (September 20, 2000), 2000US-234052P (September 20, 2000), 2000US-234509P (September 22, 2000), 2000US-234567P (September 22, 2000), 2000US-234923P (September 25, 2000), 2000US-234924P (September 25, 2000), 2000US-235077P (September 25, 2000), 2000US-235082P (September 25, 2000), 2000US-235134P (September 25, 2000), 2000US-235280P (September 25, 2000), 2000US-235637P (September 26, 2000), 2000US-235638P (September 26, 2000), 2000US-235711P (September 27, 2000), 2000US-235720P (September 27, 2000), 2000US-235840P (September 27, 2000), 2000US-235863P (September 27, 2000), 2000US-236028P (September 28, 2000), 2000US-236032P (September 28, 2000), 2000US-236033P (September 28, 2000), 2000US-236034P (September 28, 2000), 2000US-236109P (September 28, 2000), 2000US-236111P (September 28, 2000), 2000US-236842P (September 29, 2000), 2000US-236891P (September 29, 2000), 2000US-237172P (October 2, 2000), 2000US-237173P (October 2, 2000), 2000US-237278P (October 2, 2000), 2000US-237294P (October 2, 2000), 2000US-237295P (October 2, 2000), 2000US-237316P (October 2, 2000), 2000US-237425P (October 3, 2000), 2000US-237598P (October 3, 2000), 2000US-237604P (October 3, 2000), 2000US-237606P (October 3, 2000), 2000US-237608P (October 3, 2000), 2000US-244867P (November 1, 2000), 2001US-0962436 (September 25, 2001), 2001US-0964824 (September 27, 2001), 2001US-0969708 (October 3, 2001), 2001US-0962832 (September 25, 2001), 2001US-0954456 (September 18, 2001), 2001US-0969347 (October 2, 2001), 2001US-0967768 (September 28, 2001), 2001US-0954531 (September 18, 2001), 2001US-0873367 (June 5, 2001), 2001US-0968007 (October 2, 2001)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040115625 A1</u>	June 17, 2004		000	C12Q001/68
<u>WO 200194629 A2</u>	December 13, 2001	E	044	C12Q001/68
<u>AU 200164559 A</u>	December 17, 2001		000	
<u>US 20020081301 A1</u>	June 27, 2002		000	C12Q001/68
<u>US 20020102531 A1</u>	August 1, 2002		000	C12Q001/00
<u>US 20020102532 A1</u>	August 1, 2002		000	C12Q001/00



US 20020110821 A1	August 15, 2002	000	C12Q001/68
US 20020115057 A1	August 22, 2002	000	C12Q001/00
US 20020115085 A1	August 22, 2002	000	C12Q001/68
US 20020150877 A1	October 17, 2002	000	C12Q001/00
US 20020165180 A1	November 7, 2002	000	A61K038/17
US 20030165839 A1	September 4, 2003	000	C12Q001/68
EP 1358349 A2	November 5, 2003	E 000	C12Q001/68
JP 2004509612 W	April 2, 2004	083	C12N015/09

A2 , JP 2004509612 W INT-CL (IPC): A61 K 31/00; A61 K 38/17; A61 K 39/395; A61 K 48/00; C07 H 21/04; C12 N 15/09; C12 Q 1/00; C12 Q 1/02; C12 Q 1/68; G01 N 33/15; G01 N 33/50; G01 N 33/566; G01 N 33/574

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	Know	Draw Des
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## 2. Document ID: US 6071709 A

L2: Entry 2 of 5

File: DWPI

Jun 6, 2000

DERWENT-ACC-NO: 2000-411191

DERWENT-WEEK: 200035

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TITLE: Detecting presence of neurotrophic factor or tyrosine kinase related oncogene receptor for diagnosing neurodegenerative diseases involves detecting tyrosine phosphorylation in a suspected sample

INVENTOR: KAPLAN, D; MARTIN-ZANCA, D ; PARADA, L F ; SOPPET, D

PRIORITY-DATA: 1992US-0890713 (May 29, 1992), 1991US-0668298 (March 14, 1991)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6071709 A</u>	June 6, 2000		027	G01N033/567

INT-CL (IPC): G01 N 33/567

ABSTRACTED-PUB-NO: US 6071709A

### BASIC-ABSTRACT:

NOVELTY - Detecting a neurotrophic factor (NF) comprises contacting cells expressing tyrosine kinase(trk)-B-proto-oncogene receptor protein (TRP) with a putative NF and comparing the amount of phosphorylation of TRP in the cells, where an increase in phosphorylation compared with a control indicates presence of a NF.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of detecting a trk-proto-oncogene receptor protein in a sample comprising:

(1) contacting nerve growth factor (NGF) with a biological sample suspected of containing TRP and detecting any phosphorylation in the sample which indicates the presence of NGF.

USE - Identifying NF and TRP is useful for diagnosing degenerated neuronal diseases such as Alzheimer's and Huntington's disease in suspected patients, for diagnosing a tissue undergoing a neuronal regeneration and for designing compositions to treat neurodegenerative diseases.



Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMAC	Draw. Desc
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3. Document ID: WO 9854963 A2, AU 9878120 A, EP 1039801 A1, JP 2002516573 W, US 20030092893 A1, EP 1428833 A2

L2: Entry 3 of 5

File: DWPI

Dec 10, 1998

DERWENT-ACC-NO: 1999-059865

DERWENT-WEEK: 200462

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TITLE: New isolated human genes and the secreted polypeptides they encode - useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

INVENTOR: BREWER, L A; CARTER, K ; DILLON, P ; EBNER, R ; ENDRESS, G ; FAN, P ; FENG, P ; FERRIE, A M ; FISCHER, C ; FLORENCE, C ; FLORENCE, K ; GREENE, J ; HU, J ; KYAW, H ; LAFLEUR, D ; LI, Y ; MOORE, P A ; NI, J ; OLSEN, H ; ROSEN, C ; RUBEN, S ; SHI, Y E ; SOPPET, D ; WEI, Y ; YOUNG, P ; YU, G ; ZENG, Z ; CARTER, K C ; DILLON, P J ; ENDRESS, G A ; FISCHER, C L ; GREENE, J M ; LAFLEUR, D W ; MORE, P A ; OLSEN, H S ; ROSEN, C A ; RUBEN, S M ; SHI, Y ; SOPPET, D R

PRIORITY-DATA: 1997US-070923P (December 18, 1997), 1997US-048875P (June 6, 1997), 1997US-048876P (June 6, 1997), 1997US-048877P (June 6, 1997), 1997US-048878P (June 6, 1997), 1997US-048880P (June 6, 1997), 1997US-048881P (June 6, 1997), 1997US-048882P (June 6, 1997), 1997US-048883P (June 6, 1997), 1997US-048884P (June 6, 1997), 1997US-048885P (June 6, 1997), 1997US-048892P (June 6, 1997), 1997US-048893P (June 6, 1997), 1997US-048894P (June 6, 1997), 1997US-048895P (June 6, 1997), 1997US-048896P (June 6, 1997), 1997US-048897P (June 6, 1997), 1997US-048898P (June 6, 1997), 1997US-048899P (June 6, 1997), 1997US-048900P (June 6, 1997), 1997US-048901P (June 6, 1997), 1997US-048915P (June 6, 1997), 1997US-048916P (June 6, 1997), 1997US-048917P (June 6, 1997), 1997US-048949P (June 6, 1997), 1997US-048962P (June 6, 1997), 1997US-048963P (June 6, 1997), 1997US-048964P (June 6, 1997), 1997US-048970P (June 6, 1997), 1997US-048971P (June 6, 1997), 1997US-048972P (June 6, 1997), 1997US-048974P (June 6, 1997), 1997US-049019P (June 6, 1997), 1997US-049020P (June 6, 1997), 1997US-049373P (June 6, 1997), 1997US-049374P (June 6, 1997), 1997US-049375P (June 6, 1997), 1997US-057584P (September 5, 1997), 1997US-057627P (September 5, 1997), 1997US-057628P (September 5, 1997), 1997US-057629P (September 5, 1997), 1997US-057634P (September 5, 1997), 1997US-057635P (September 5, 1997), 1997US-057642P (September 5, 1997), 1997US-057643P (September 5, 1997), 1997US-057644P (September 5, 1997), 1997US-057645P (September 5, 1997), 1997US-057646P (September 5, 1997), 1997US-057647P (September 5, 1997), 1997US-057648P (September 5, 1997), 1997US-057649P (September 5, 1997), 1997US-057650P (September 5, 1997), 1997US-057651P (September 5, 1997), 1997US-057654P (September 5, 1997), 1997US-057661P (September 5, 1997), 1997US-057662P (September 5, 1997), 1997US-057666P (September 5, 1997), 1997US-057667P (September 5, 1997), 1997US-057668P (September 5, 1997), 1997US-057760P (September 5, 1997), 1997US-057761P (September 5, 1997), 1997US-057762P (September 5, 1997), 1997US-057763P (September 5, 1997), 1997US-057764P (September 5, 1997), 1997US-057765P (September 5, 1997), 1997US-057769P (September 5, 1997), 1997US-057770P (September 5, 1997), 1997US-057771P (September 5, 1997), 1997US-057774P (September 5, 1997), 1997US-057775P (September 5, 1997), 1997US-057776P (September 5, 1997), 1997US-057777P (September 5, 1997), 1997US-057778P (September 5, 1997), 1997US-049896P (June 6, 1997), 1998US-092921P (July 15, 1998), 1998US-094657P (July 30, 1998), 1998US-0205258 (December 4, 1998), 2001US-0023282 (December 20, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9854963 A2	December 10, 1998	E	770	A01N037/18
AU 9878120 A	December 21, 1998		000	

h e b b g e e e f e h e h e f b e



EP 1039801 A1	October 4, 2000	E	000	A01N037/18
JP 2002516573 W	June 4, 2002		914	C12N015/09
US 20030092893 A1	May 15, 2003		000	C07K016/00
EP 1428833 A2	June 16, 2004	E	000	C07K014/435

INT-CL (IPC): A01 N 37/18; A01 N 43/04; A61 K 31/711; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 K 48/00; A61 P 7/00; A61 P 25/00; A61 P 29/00; A61 P 35/00; A61 P 37/00; A61 P 43/00; C07 K 14/435; C07 K 14/47; C07 K 16/00; C07 K 16/18; C12 N 1/15; C12 N 1/19; C12 N 1/20; C12 N 1/21; C12 N 5/00; C12 N 5/06; C12 N 5/10; C12 N 15/00; C12 N 15/06; C12 N 15/09; C12 N 15/10; C12 N 15/11; C12 N 15/63; C12 Q 1/00; C12 Q 1/02; C12 Q 1/68; G01 N 33/53

ABSTRACTED-PUB-NO: WO 9854963A

BASIC-ABSTRACT:

An isolated nucleic acid molecule (NAM) (I) comprising a polynucleotide (PN) having a nucleotide sequence (NS) at least 95% identical to: (a) a PN fragment of one of a total of 207 defined human cDNA sequences given in the specification or a PN fragment of the cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the 207 defined cDNA sequences; (b) a PN which is an (allelic) variant of one of the 207 defined cDNA sequences; (c) a PN encoding a biologically active polypeptide or a polypeptide fragment, domain or epitope of one of the 207 defined amino acid sequences given in the specification or a polypeptide fragment encoded by a cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the defined cDNA sequences; (d) a PN which encodes a species homologue of one of the 207 defined polypeptides; or (e) a PN capable of hybridising under stringent conditions to any one of the PNs specified in (a)-(d), where the PN does not hybridise under stringent conditions to a sequence of only A residues or of only T residues. Also claimed are: (1) a recombinant vector comprising (I); (2) a method of making a recombinant host cell comprising (I); (3) a recombinant host cell produced by a method as in (2); (4) an isolated polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from a polypeptide fragment (preferably having biological activity), domain, epitope, secreted form, full-length protein, (allelic) variant or species homologue of one of the 207 defined amino acid sequences or the encoded sequence included in ATCC Deposit No. Z; (5) an isolated antibody that binds specifically to an isolated polypeptide as in (4); (6) a recombinant host cell that expresses an isolated polypeptide as above; and (7) a gene corresponding to a cDNA sequence of the 207 defined amino acid sequences.

Note: From the disclosure 'ATCC Deposit No. Z' refers to the representative clones, each containing a subset of the defined cDNA sequences, which have been deposited with the ATCC. The deposit numbers are: ATCC 97979, 97974, 97975, 97976, 97977, 209007, 209008, 209009, 209010, 209011, 209080, 209081, 209082, 209083, 209084, 209085, 209511,.

USE The PNs and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions (claimed), e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new PNs (claimed). Specific uses are described for each of the 207 PNs, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, neurodegenerative disorders, developmental abnormalities and foetal deficiencies, blood disorders, leukemias, diseases of the immune system, autoimmune diseases, hepatic and renal disease, lymphomas, inflammation, allergies, ischemic shock, Alzheimer's and cognitive disorders, schizophrenia, restenosis, prostate diseases, obesity, disorders involving osteoclasts such as osteoporosis, arthritis or malignancies, diseases of testes, lung or thymus, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners (claimed).

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Des.
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4. Document ID: JP 2003033192 A, WO 9639433 A1, AU 9526973 A, EP 832123 A1, JP 11507810 W, US 6030804 A, US 6338951 B1, US 20020086363 A1

L2: Entry 4 of 5

File: DWPI

Feb 4, 2003

DERWENT-ACC-NO: 1997-043068

DERWENT-WEEK: 200320

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TITLE: Human G-protein parathyroid hormone receptor, HLTDG74 - used to identify (ant) agonists, used in the treatment of hypo- or hyper-calcaemia, hypo- or hyper-phosphatemia, kidney stones, etc

INVENTOR: LI, Y; ROSEN, C A ; RUBEN, S M ; SOPPET, D R ; SOPPET, D

PRIORITY-DATA: 1995WO-US07085 (June 5, 1995), 1995US-0468011 (June 6, 1995), 1999US-0236468 (January 25, 1999), 2001US-0996569 (November 30, 2001), 2002JP-0137833 (June 5, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2003033192 A</u>	February 4, 2003		023	C12N015/09
<u>WO 9639433 A1</u>	December 12, 1996	E	062	C07K014/705
<u>AU 9526973 A</u>	December 24, 1996		000	C07K014/705
<u>EP 832123 A1</u>	April 1, 1998	E	000	C07K014/705
<u>JP 11507810 W</u>	July 13, 1999		056	C12N015/09
<u>US 6030804 A</u>	February 29, 2000		000	C12N015/12
<u>US 6338951 B1</u>	January 15, 2002		000	C07K014/72
<u>US 20020086363 A1</u>	July 4, 2002		000	C12P021/02

INT-CL (IPC): A61 K 35/76; A61 K 38/00; A61 K 39/395; A61 K 48/00; A61 P 3/14; A61 P 5/00; A61 P 13/12; A61 P 19/10; A61 P 43/00; C07 H 21/04; C07 K 14/705; C07 K 14/72; C07 K 16/28; C12 N 1/21; C12 N 5/06; C12 N 5/10; C12 N 15/09; C12 N 15/12; C12 P 21/02; C12 P 21/08; C12 Q 1/02; G01 N 33/15; G01 N 33/50; G01 N 33/567; C12 N 1/21; C12 R 1:19; C12 P 21/02; C12 R 1:19; C12 P 21/02; C12 R 1:91.

ABSTRACTED-PUB-NO: US 6030804A

## BASIC-ABSTRACT:

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

ABSTRACTED-PUB-NO:

US 6338951B EQUIVALENT-ABSTRACTS:

A novel isolated polynucleotide (I) comprises a member selected from: (a) a

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polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

US20020086363A

A novel isolated polynucleotide (I) comprises a member selected from: (a) a polynucleotide of 1914 bp encoding the polypeptide of 541 residues given in the specification; (b) a polynucleotide encoding a mature polypeptide encoding by the DNA deposited as ATCC 97186; (c) a polynucleotide capable of hybridising to, and which is at least 70% identical to the nucleotide sequence of (a) or (b); and (d) a polynucleotide fragment of the nucleotide sequences of (a), (b) or (c).

USE - The cpds. of (6) may be used for the treatment of patients which need to activate or inhibit a G-protein coupled receptor (claimed). Mutations in (I) or the corresp. protein may be identified by sequence analysis. Agonists cpds. may be used to prevent and/or treat hypocalcaemia, hyperphosphatemia, hypoparathyroidism and chronic tetany by stimulating an increase in serum calcium levels. Antagonist cpds. may be used to treat and/or prevent osteoporosis, hypercalcaemia, hypoparathyroidism, hypophosphatemia, kidney stone and nephrolithiasis.

WO 9639433A

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Des
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## 5. Document ID: US N7890713 N

L2: Entry 5 of 5

File: DWPI

Apr 1, 1993

DERWENT-ACC-NO: 1993-152039

DERWENT-WEEK: 200173

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TITLE: Complexes of tyrosine receptor kinase - with nerve growth factors, used for study, diagnosis and treatment of neuro-degenerative diseases

h e b b g e e e f e h e h e f b e



INVENTOR: KAPLAN, D; MARTIN-ZANCA, D ; PARADA, L ; SOPPET, D

PRIORITY-DATA: 1991US-0890713 (March 14, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US <u>N7890713 N</u>	April 1, 1993		071	C12N000/00

INT-CL (IPC): C12N 0/00

ABSTRACTED-PUB-NO: US 7890713A

## BASIC-ABSTRACT:

The following are disclosed: (A) complex comprising nerve growth factor (NGF) and tyrosine receptor kinase (trk) proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (B) a complex of neurotrophin-3 (NT-3) or brain-derived neurotrophic factor (BDNF) and trkB-proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (C) a method of detecting the NGF:trk-proto-oncogene receptor complex, NT-3:trkB proto-oncogene receptor complex or BDNF:trkB proto-oncogene receptor complex in a sample which comprises contacting the sample with an antibody that binds specifically with NGF, NT-3, BDNF, trk- or trkB-proto-oncogene receptor protein of the complex, a positive immunological reaction indicating the presence of the complex; (D) a method of diagnosing degenerative neuronal diseases in a patient, which comprises contacting a sample of diseased tissue with an antibody that binds with one of the complexes as in (C) and detecting complex formation; (E) a method of diagnosing a tissue undergoing neuronal regeneration in a patient, which comprises contacting a sample of the tissue with an antibody that binds to one of the tissues as in (C) and assaying for the presence of resulting complex; (F) a method of detecting NGF, NT-3 or BDNF in a sample which comprises contacting the sample with trk or trkB-proto-oncogene receptor protein and detecting the presence of bound NGF, NT-3 or BDNF; (G) a method of detecting trk or trkB-proto-oncogene receptor protein in a sample using NGF, NT-3 or BDNF as a binding agent; (H) a method of detecting neurotrophic factor receptor/ligand complexes that are structurally and functionally related to trk and NGF comprising using the methods described above for detecting trk:NGF, trkB:NT-3 and trkB:BDNF complexes.

USE - The methods can be used for the diagnosis of neurodegenerative diseases that affect NGF-dependent neurons such as Alzheimer's and Huntington's disease. The methods can also be used to study nerve survival and regeneration and to develop therapeutic methods for treating such diseases

The following are disclosed: (A) complex comprising nerve growth factor (NGF) and tyrosine receptor kinase (trk) proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (B) a complex of neurotrophin-3 (NT-3) or brain-derived neurotrophic factor (BDNF) and trkB-proto-oncogene protein, where the complex is free of protein with which it is naturally associated; (C) a method of detecting the NGF:trk-proto-oncogene receptor complex, NT-3:trkB proto-oncogene receptor complex or BDNF:trkB proto-oncogene receptor complex in a sample which comprises contacting the sample with an antibody that binds specifically with NGF, NT-3, BDNF, trk- or trkB-proto-oncogene receptor protein of the complex, a positive immunological reaction indicating the presence of the complex; (D) a method of diagnosing degenerative neuronal diseases in a patient, which comprises contacting a sample of diseased tissue with an antibody that binds with one of the complexes as in (C) and detecting complex formation; (E) a method of diagnosing a tissue undergoing neuronal regeneration in a patient, which comprises contacting a sample of the tissue with an antibody that binds to one of the tissues as in (C) and assaying for the presence of resulting complex; (F) a method of detecting NGF, NT-3 or BDNF in a sample which comprises contacting the sample with trk or trkB-proto-oncogene receptor protein and detecting the presence of bound NGF, NT-3 or BDNF; (G) a method of detecting trk or trkB-proto-oncogene receptor protein in a sample using NGF, NT-3 or BDNF as a binding agent; (H) a method of detecting neurotrophic factor

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receptor/ligand complexes that are structurally and functionally related to trk and NGF comprising using the methods described above for detecting trk:NGF, trkB:NT-3 and trkB:BDNF complexes.

USE - The methods can be used for the diagnosis of neurodegenerative diseases that affect NGF-dependent neurons such as Alzheimer's and Huntington's disease. The methods can also be used to study nerve survival and regeneration and to develop therapeutic methods for treating such diseases

ABSTRACTED-PUB-NO:

US N7890713N EQUIVALENT-ABSTRACTS:

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc
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## Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20020146778 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 10

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146778

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020146778 A1

TITLE: Pineal gland specific gene-1

PUBLICATION-DATE: October 10, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
He, Wei Wu	Columbia	MD	US	
Rosen, Craig	Laytonsville	MD	US	

US-CL-CURRENT: 435/69.4; 435/320.1, 435/325, 530/399, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 2. Document ID: US 20020086314 A1

L8: Entry 2 of 10

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086314

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086314 A1

TITLE: Colon specific genes and proteins

PUBLICATION-DATE: July 4, 2002

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yu, Guo-Liang	Berkeley	CA	US	
Rosen, Craig	Laytonsville	MD	US	

US-CL-CURRENT: 435/6; 435/196, 435/320.1, 435/325, 435/69.1, 435/7.23, 536/23.2

### ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polynucleotides or polypeptides as a

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diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Des
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☐ 3. Document ID: US 20020042119 A1

L8: Entry 3 of 10

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042119

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042119 A1

TITLE: Novel Metalloproteinases

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ni, Jian	Germantown	MD	US	
Ruben, Steve	Olney	MD	US	
Brewer, Laurie	St. Paul	MD	US	
Gentz, Reiner	Rockville	MD	US	
Rosen, Craig	Laytonsville	MD	US	

US-CL-CURRENT: 435/219; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to novel metalloproteinase-like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE-like and matrilysin-like proteins. TACE-like and matrilysin-like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE-like and matrilysin-like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Des
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☐ 4. Document ID: US 6608182 B1

L8: Entry 4 of 10

File: USPT

Aug 19, 2003

US-PAT-NO: 6608182

DOCUMENT-IDENTIFIER: US 6608182 B1

TITLE: Human vascular endothelial growth factor 2

DATE-ISSUED: August 19, 2003

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## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosen; Craig	Laytonsville	MD		
Hu; Jing-Shan	Gaithersburg	MD		
Cao; Liang	Monmouth Terrace			HK

US-CL-CURRENT: 530/399; 435/243, 435/320.1, 435/325, 435/69.1, 435/69.4, 530/300,  
530/350, 530/402

## ABSTRACT:

The present invention relates to polypeptides comprising amino acids 85 to 165 of SEQ ID NO:2, as well as polynucleotides which encode these polypeptides. Also provided are methods of treatment using these polypeptides.

21 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. Desc.
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☐ 5. Document ID: US 6337195 B1

L8: Entry 5 of 10

File: USPT

Jan 8, 2002

US-PAT-NO: 6337195

DOCUMENT-IDENTIFIER: US 6337195 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Colon specific genes and proteins

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Darnestown	MD		
Rosen; Craig	Laytonsville	MD		

US-CL-CURRENT: 435/70.1; 530/350, 536/22.1

## ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polynucleotides or polypeptides as a diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

11 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17



Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KAMC	Draw. Des.
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☐ 6. Document ID: US 6312937 B1

L8: Entry 6 of 10

File: USPT

Nov 6, 2001

US-PAT-NO: 6312937

DOCUMENT-IDENTIFIER: US 6312937 B1

TITLE: Metalloproteinases

DATE-ISSUED: November 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Ruben; Steve	Olney	MD		
Brewer; Laurie	Poolesville	MD		
Gentz; Reiner	Silver Spring	MD		
Rosen; Craig	Laytonsville	MD		

US-CL-CURRENT: 435/219; 435/212, 435/226

## ABSTRACT:

The present invention relates to novel metalloproteinase- like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE-like and matrilysin-like proteins. TACE-like and matrilysin-like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE-like and matrilysin-like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

30 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KAMC	Draw. Des.
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☐ 7. Document ID: US 6251648 B1

L8: Entry 7 of 10

File: USPT

Jun 26, 2001

US-PAT-NO: 6251648

DOCUMENT-IDENTIFIER: US 6251648 B1

TITLE: Gene encoding human Dnase

DATE-ISSUED: June 26, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosen; Craig	Laytonsville	MD		

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Ruben; Steven M. Olney MD  
Adams; Mark D. North Potomac MD

US-CL-CURRENT: 435/199; 530/300, 530/324

## ABSTRACT:

A human DNase polypeptide and DNA (RNA) encoding such polypeptide and a procedure for producing such polypeptide by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptide for preventing and/or treating bronchopulmonary conditions. Diagnostic assays for identifying mutations in nucleic acid sequence encoding a polypeptide of the present invention and for detecting altered levels of the polypeptide of the present invention are also disclosed.

51 Claims, 7 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 8. Document ID: US 6046031 A

L8: Entry 8 of 10

File: USPT

Apr 4, 2000

US-PAT-NO: 6046031

DOCUMENT-IDENTIFIER: US 6046031 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Metalloproteinases

DATE-ISSUED: April 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Ruben; Steve	Olney	MD		
Brewer; Laurie	Poolesville	MD		
Gentz; Reiner	Silver Spring	MD		
<u>Rosen; Craig</u>	Laytonsville	MD		

US-CL-CURRENT: 435/69.1; 435/219, 435/226, 435/252.33, 435/320.1, 435/325, 435/69.3,  
536/23.1, 536/23.2, 536/23.5

## ABSTRACT:

The present invention relates to novel metalloproteinase-like proteins. In particular, isolated nucleic acid molecules are provided encoding the human TACE-like and matrilysin-like proteins. TACE-like and matrilysin-like polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TACE-like and matrilysin-like activity. Also provided are diagnostic methods for detecting cancer and therapeutic methods for cancer and other disorders characterized by an over or under production of these metalloproteinases.

60 Claims, 9 Drawing figures  
Exemplary Claim Number: 1

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Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc
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☐ 9. Document ID: US 5733748 A

L8: Entry 9 of 10

File: USPT

Mar 31, 1998

US-PAT-NO: 5733748

DOCUMENT-IDENTIFIER: US 5733748 A

TITLE: Colon specific genes and proteins

DATE-ISSUED: March 31, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Darnestown	MD		
<u>Rosen; Craig</u>	Laytonsville	MD		

US-CL-CURRENT: 435/70.1; 435/252.3, 435/320.1, 435/325, 536/22.1, 536/23.5

## ABSTRACT:

Human colon specific gene polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polynucleotides or polypeptides as a diagnostic marker for colon cancer and as an agent to determine if colon cancer has metastasized. Also disclosed are antibodies specific to the colon specific gene polypeptides which may be used to target cancer cells and be used as part of a colon cancer vaccine. Methods of screening for agonists and antagonists for the polypeptide and therapeutic uses of the antagonists are disclosed.

20 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc
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☐ 10. Document ID: WO 9519985 A1

L8: Entry 10 of 10

File: EPAB

Jul 27, 1995

PUB-NO: WO009519985A1

DOCUMENT-IDENTIFIER: WO 9519985 A1

TITLE: HAEMOPOIETIC MATURATION FACTOR

PUBN-DATE: July 27, 1995

## INVENTOR-INFORMATION:

NAME	COUNTRY
KIRKNESS, EWEN	
ADAMS, MARK D	

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OLSEN, HENRIK

ROSEN, CRAIG

INT-CL (IPC): C07 H 17/00; C12 N 15/00; C12 N 1/20; C12 P 21/06; C07 K 13/00; A61 K 37/00

EUR-CL (EPC): C07K014/475

## ABSTRACT:

Disclosed is a human maturation factor polypeptide and DNA(RNA) encoding such haemopoietic maturation factor polypeptides. Also provided is a procedure for producing such polypeptide by recombinant techniques and antibodies against such polypeptide. Such polypeptides may be combined with a suitable pharmaceutical carrier or diluent to provide diagnostic, therapeutic and/or prophylactic effects against various diseases related to the underexpression of such human haemopoietic maturation factor polypeptide.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc
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Documents

Rosen-Craig.IN.

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## Search Results - Record(s) 1 through 19 of 19 returned.

☐ 1. Document ID: AU 2003219999 A1, US 20030175340 A1, WO 2003075884 A1, WO 2004035004 A2

Using default format because multiple data bases are involved.

L10: Entry 1 of 19

File: DWPI

Sep 22, 2003

DERWENT-ACC-NO: 2004-020713

DERWENT-WEEK: 200431

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TITLE: Effervescent composition useful for treating osteoporosis comprises a bisphosphonate, an acid component and an alkaline effervescing component

INVENTOR: MCCALLISTER, D; ROSEN, C

PRIORITY-DATA: 2002US-0273081 (October 17, 2002), 2002US-0092083 (March 6, 2002)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>AU 2003219999 A1</u>	September 22, 2003		000	A61K009/00
<u>US 20030175340 A1</u>	September 18, 2003		013	A61K031/675
<u>WO 2003075884 A1</u>	September 18, 2003	E	000	A61K009/00
<u>WO 2004035004 A2</u>	April 29, 2004	E	000	A61K000/00

INT-CL (IPC): A61 K 0/00; A61 K 9/00; A61 K 9/46; A61 K 31/4439; A61 K 31/66; A61 K 31/663; A61 K 31/675

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Des
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☐ 2. Document ID: US 20020146778 A1

L10: Entry 2 of 19

File: DWPI

Oct 10, 2002

DERWENT-ACC-NO: 2003-255127

DERWENT-WEEK: 200325

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TITLE: Isolated polynucleotide encoding pineal gland specific gene-1 protein (PGSG-1), useful for regulation of the pituitary gland and for modulating biological rhythms

INVENTOR: HE, W W; ROSEN, C

PRIORITY-DATA: 1995US-0461248 (June 5, 1995), 2002US-0153739 (May 24, 2002)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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US 20020146778 A1

October 10, 2002

021

C12P021/02

INT-CL (IPC): C07 H 21/04; C07 K 14/575; C12 N 5/06; C12 P 21/02

ABSTRACTED-PUB-NO: US20020146778A

BASIC-ABSTRACT:

NOVELTY - A new isolated polynucleotide (I) comprises:

- (a) a sequence encoding a polypeptide of 345 amino acids, fully defined in the specification;
- (b) a sequence encoding amino acid 22 to 283 of (a);
- (c) a sequence capable of hybridizing to and which is at least 70% identical to (a) or (b);
- (d) the DNA contained in ATCC Deposit No. 97162; or
- (e) a fragment of (a), (b), or (c).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) A vector containing (I);
- (2) A host cell genetically engineered with the vector;
- (3) Producing a polypeptide comprising expressing from the host cell the polypeptide encoded by the DNA;
- (4) Producing cells capable of expressing a polypeptide comprising transforming or transfecting the cells with the vector;
- (5) A polypeptide (II) comprising a sequence of 345 amino acids, fully defined in the specification, amino acids 22 to 283 of (II), or a polypeptide encoded by the cDNA of ATCC Deposit No. 97162 and its fragments;
- (6) A compound effective as agonist, or antagonist for the polypeptide; and
- (7) Identifying compounds which bind to and activate or inhibit a receptor for the polypeptide comprising:
  - (a) contacting a cell expressing on its surface a receptor for the polypeptide, the receptor being associated with a second component capable of providing a detectable signal in response to the binding of a compound to the receptor, with a compound to be screened under conditions to permit binding to the receptor; and
  - (b) determining whether the compound binds to and activates or inhibits the receptor by detecting the presence or absence of a signal generated from the interaction of the compound with the receptor.

ACTIVITY - Endocrine; Cytostatic; Anticonvulsant; Ophthalmological.

No biological data given.

MECHANISM OF ACTION - Gene Therapy.

No biological data given.

USE - The methods are useful for diagnosing a disease or a susceptibility to a disease related to expression of the polypeptide comprising determining a mutation in the nucleic acid sequence encoding the polypeptide, treating a patient in need of pineal gland specific gene-1 (PGSG-1) comprising administering to the patient an

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amount of the polypeptide, and for diagnosis comprising analyzing for the presence of the polypeptide in a sample derived from a host (all claimed). The polypeptides are used for the regulation of the pituitary gland and to modulate biological rhythms. PGSG-1 is useful for treating conditions resulting from pineal gland tumors such as precocious puberty, hydrocephalus, papilledema, paralysis of upward gaze, ptosis and loss of pupillary light and accommodation reflexes.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Des
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☐ 3. Document ID: WO 200273366 A2, US 20030050070 A1, AU 2002254215 A1

L10: Entry 3 of 19

File: DWPI

Sep 19, 2002

DERWENT-ACC-NO: 2002-643728

DERWENT-WEEK: 200435

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TITLE: Method of dynamically allocating spectrum bandwidth by detecting criteria data sets for respective carriers and transmitting requests for a switch of carriers and transceivers over a control channel

INVENTOR: MASHINSKY, A; ROSEN, C ; MASHINSKY,

PRIORITY-DATA: 2002US-357545P (February 15, 2002), 2001US-275818P (March 14, 2001), 2002US-0099552 (March 14, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 200273366 A2</u>	September 19, 2002	E	058	G06F000/00
<u>US 20030050070 A1</u>	March 13, 2003		000	H04Q007/20
<u>AU 2002254215 A1</u>	September 24, 2002		000	G06F000/00

INT-CL (IPC): G06 F 0/00; H04 B 1/38; H04 M 1/00; H04 Q 7/20

ABSTRACTED-PUB-NO: WO 200273366A

BASIC-ABSTRACT:

NOVELTY - Spectrum and network availability and congestion information from different service providers is pooled in a central database. Wholesale volumes of network capacity or accounts can be purchased and dynamically allocated to devices of different origin and ownership. A central system administrator re-bills and reconciles fractional usage to each device. Emergency calls can be given high priority to ensure their connection.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

- (a) a device for dynamically switching communication modes in a wireless network
- (b) and a system for managing available spectrum in a wireless network with two or more available carriers

USE - Spectrum allocation in wireless telephone data systems.

ADVANTAGE - Efficient management of a network, especially at times of high congestion.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Des
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☐ 4. Document ID: US 20020086314 A1

L10: Entry 4 of 19

File: DWPI

Jul 4, 2002

DERWENT-ACC-NO: 2002-635672

DERWENT-WEEK: 200455

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TITLE: Novel human colon specific gene polypeptide, useful for treating colon cancer, and as a diagnostic marker for colon cancer or metastasis of colon cancers

INVENTOR: ROSEN, C; YU, G

PRIORITY-DATA: 1995US-0469667 (June 6, 1995), 1998US-0224110 (March 31, 1998), 2001US-0988292 (November 19, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020086314 A1</u>	July 4, 2002		051	C12Q001/68

INT-CL (IPC): C07 H 21/04; C12 N 5/06; C12 N 9/16; C12 P 21/02; C12 Q 1/68; G01 N 33/574

ABSTRACTED-PUB-NO: US20020086314A

## BASIC-ABSTRACT:

NOVELTY - A human colon specific gene (CSG) polypeptide (I) comprising a sequence (S1) of 323 amino acids given in the specification, or its fragment, analog or derivative, or a sequence encoded by a human gene having a coding portion whose DNA has at least 90% identity to a sequence (S2) of 638, 1209, 548, 878, 560, 709, 559, 409 or 600 base pairs given in the specification, is new.

DETAILED DESCRIPTION - A human colon specific polypeptide (I) comprising a sequence (S1) of 323 amino acids fully defined in the specification, or its fragment, analog or derivative, or a sequence encoded by a human gene having a coding portion whose DNA has at least 90% identity to a sequence (S2) of 638, 1209, 548, 878, 560, 709, 559, 409 or 600 base pairs fully defined in the specification, and a polypeptide encoded by the human gene whose coding region includes a DNA having at least 90% identity to the DNA contained in ATCC 97102 and fragments, analogs or derivatives of the polypeptide.

INDEPENDENT CLAIMS are also included for:

(1) an isolated polynucleotide (II) comprising:

(a) a polynucleotide encoding S1

(b) a polynucleotide capable of hybridizing to and which is at least 70% identical to (a); and

(c) a polynucleotide encoding the same mature polypeptide as a human gene having a coding portion which includes DNA having at least 90% identity to S2 or to the DNA included in ATCC 97102;

(2) a vector (III) containing (II);

(3) a host cell (IV) transformed or transfected with (III);

(4) production of (I);



- (5) producing cells capable of expressing (I) by genetically engineering cells with (III);
- (6) an antibody (V) against (I);
- (7) a compound (VI) which inhibits activation of (I);
- (8) diagnosing (M) a disorder of colon in a patient by determining transcription of a human gene in a sample derived from a non-colon tissue of a host (the gene has a coding portion which includes a DNA having at least 90% identity to a DNA selected from S2 or a sequence of 874, 570, 1121 or 605 base pairs fully defined in the specification);
- (9) an isolated antibody (VII) or its portion that specifically binds to a protein (P) or is produced by immunizing an animal with (P) ((P) is:
- (a) a protein whose sequence consists of amino acid residues 1-323 of S1, or a protein consisting of a fragment comprising at least 30 or 50 contiguous residues of S1 ((VII) or its portion specifically binds to S1); and
- (b) a protein whose sequence consists of the amino acid sequence of the full-length or mature CSG10 polypeptide encoded by the cDNA contained in ATCC 97102, or a protein consisting of a fragment of the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102 (the fragment comprises at least 30 or 50 amino acid residues of the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102 and (VII) or its portion binds specifically to the CSG10 polypeptide encoded by the cDNA contained in ATCC 97102));
- (10) an isolated cell (VIII) that produces (VII); and
- (11) a hybridoma (IX) that produces (VII).

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Inhibitor of activation of (I) (claimed); gene therapy; vaccine.

No supporting data is given.

USE - (I) Is useful for treating a patient having need of (I).

(VI) Is useful for the treatment of a patient and inhibit expression and activity (I). (VI) Is a polypeptide and a therapeutically effective amount of the compound is administered by providing to the patient DNA encoding the polypeptide and expressing the polypeptide in vivo.

(VII) Is useful for detecting CSG10 protein in a biological sample by contacting the biological sample with (VII) or its portion, and detecting the CSG10 protein in the biological sample (claimed).

(I) Or (II) is useful as a diagnostic marker for colon cancer, or as an agent to determine if colon cancer has metastasized, and for in vitro purposes related to scientific research, synthesis of DNA and manufacture of DNA vectors.

(V) Is useful to target cancer cells and as a part of a colon cancer vaccine.

(I) Is useful for treating colon cancer, to screen for compounds which interact with (I), for example, compounds which inhibit or activate (I), and as an immunogen to produce antibodies to (I). (II) Is useful in gene therapy and for chromosome identification.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Des
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☐ 5. Document ID: US 6337195 B1

L10: Entry 5 of 19

File: DWPI

Jan 8, 2002

DERWENT-ACC-NO: 2002-163239  
DERWENT-WEEK: 200455  
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TITLE: Human colon specific gene polypeptide, useful as diagnostic marker, vaccine and for screening agonists and antagonists for treating colon cancer

INVENTOR: ROSEN, C ; YU, G

PRIORITY-DATA: 1995US-0469667 (June 6, 1995), 1998US-0224110 (March 31, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6337195 B1</u>	January 8, 2002		049	C07H021/04

INT-CL (IPC): C07 H 21/04; C07 K 13/00; C12 P 21/04

ABSTRACTED-PUB-NO: US 6337195B

## BASIC-ABSTRACT:

NOVELTY - An isolated human colon specific gene polypeptide (I) comprising a sequence (S1) 95% identical to a sequence (S2) consisting of amino acids 2-323 of a fully defined sequence (S3) of 323 amino acids as given in the specification, where (I) binds to an antibody that specifically binds to a protein consisting of (S3), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) preparation of (I); and
- (2) a polypeptide (II) comprising at least 30 contiguous amino acids of (S3).

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Vaccine. No supporting data is given.

USE - (I) is useful as diagnostic marker for colon cancer and as a colon cancer vaccine. It is also useful for targeting cancer cells and for screening agonist and antagonist for (I) which are useful for treating colon cancer.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Desc
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☐ 6. Document ID: US 6175831 B1

L10: Entry 6 of 19

File: DWPI

Jan 16, 2001

DERWENT-ACC-NO: 2001-463379  
DERWENT-WEEK: 200150  
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Network database system has database server which is responsive to parser processing to manipulate record in database and selected records are linked by confirmed defined relationship



INVENTOR: BERLYN, N D; BODDU, C ; CHIBNIK, R ; CLIFFORD, S ; GREEN, J ; HABER, D ; MITCHELL, L ; ROSEN, C ; SALAMON, M R ; SAMUELS, D ; SEIFER, A ; WEINREICH, A P ; ZILBERBERG, S

PRIORITY-DATA: 1997US-0785559 (January 17, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6175831 B1</u>	January 16, 2001		048	G06F017/30

INT-CL (IPC): G06 F 17/30

ABSTRACTED-PUB-NO: US 6175831B

BASIC-ABSTRACT:

NOVELTY - Database connectivity engine pre-processing output of web server, is coupled to database server to which queue watcher is coupled. Mail server coupled to communication port to receive incoming e-mails, is coupled to watcher to transmit outgoing e-mails. Parser coupled to mail server processes incoming e-mails, is coupled to database server that manipulates a record. Selected records are linked by confirmed defined relationship.

DETAILED DESCRIPTION - The web server is connected to communication port. A database server is connected to the database which has a number records. An INDEPENDENT CLAIM is also included for a method of creating a networking database system.

USE - Networking database system.

ADVANTAGE - The networking database has applications for searching in terms of finding other individuals in the database, finding a connection to other users in the database. The system finds other individuals in the database having particular professional or personal characteristics or features that are of interest to other members. Thus the system performs search using the database and the defined relationships in order to determined specific information about registered user.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of illustrating the process, add new relationship to a personal profile of networking database system.

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw	Desc
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☐ 7. Document ID: WO 9854963 A2, AU 9878120 A, EP 1039801 A1, JP 2002516573 W, US 20030092893 A1, EP 1428833 A2

L10: Entry 7 of 19

File: DWPI

Dec 10, 1998

DERWENT-ACC-NO: 1999-059865

DERWENT-WEEK: 200462

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: New isolated human genes and the secreted polypeptides they encode - useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

INVENTOR: BREWER, L A; CARTER, K ; DILLON, P ; EBNER, R ; ENDRESS, G ; FAN, P ; FENG, P ; FERRIE, A M ; FISCHER, C ; FLORENCE, C ; FLORENCE, K ; GREENE, J ; HU, J ; KYAW, H ; LAFLEUR, D ; LI, Y ; MOORE, P A ; NI, J ; OLSEN, H ; ROSEN, C ; RUBEN, S ; SHI, Y E ; SOPPET, D ; WEI, Y ; YOUNG, P ; YU, G ; ZENG, Z ; CARTER, K C ; DILLON, P J ; ENDRESS, G A ; FISCHER, C L ; GREENE, J M ; LAFLEUR, D W ; MORE, P A ; OLSEN, H S ; ROSEN, C A ; RUBEN, S M ; SHI, Y ; SOPPET, D R

h e b b g e e e f e h e h e f b e



PRIORITY-DATA: 1997US-070923P (December 18, 1997), 1997US-048875P (June 6, 1997), 1997US-048876P (June 6, 1997), 1997US-048877P (June 6, 1997), 1997US-048878P (June 6, 1997), 1997US-048880P (June 6, 1997), 1997US-048881P (June 6, 1997), 1997US-048882P (June 6, 1997), 1997US-048883P (June 6, 1997), 1997US-048884P (June 6, 1997), 1997US-048885P (June 6, 1997), 1997US-048892P (June 6, 1997), 1997US-048893P (June 6, 1997), 1997US-048894P (June 6, 1997), 1997US-048895P (June 6, 1997), 1997US-048896P (June 6, 1997), 1997US-048897P (June 6, 1997), 1997US-048898P (June 6, 1997), 1997US-048899P (June 6, 1997), 1997US-048900P (June 6, 1997), 1997US-048901P (June 6, 1997), 1997US-048915P (June 6, 1997), 1997US-048916P (June 6, 1997), 1997US-048917P (June 6, 1997), 1997US-048949P (June 6, 1997), 1997US-048962P (June 6, 1997), 1997US-048963P (June 6, 1997), 1997US-048964P (June 6, 1997), 1997US-048970P (June 6, 1997), 1997US-048971P (June 6, 1997), 1997US-048972P (June 6, 1997), 1997US-048974P (June 6, 1997), 1997US-049019P (June 6, 1997), 1997US-049020P (June 6, 1997), 1997US-049373P (June 6, 1997), 1997US-049374P (June 6, 1997), 1997US-049375P (June 6, 1997), 1997US-057584P (September 5, 1997), 1997US-057627P (September 5, 1997), 1997US-057628P (September 5, 1997), 1997US-057629P (September 5, 1997), 1997US-057634P (September 5, 1997), 1997US-057635P (September 5, 1997), 1997US-057642P (September 5, 1997), 1997US-057643P (September 5, 1997), 1997US-057644P (September 5, 1997), 1997US-057645P (September 5, 1997), 1997US-057646P (September 5, 1997), 1997US-057647P (September 5, 1997), 1997US-057648P (September 5, 1997), 1997US-057649P (September 5, 1997), 1997US-057650P (September 5, 1997), 1997US-057651P (September 5, 1997), 1997US-057654P (September 5, 1997), 1997US-057661P (September 5, 1997), 1997US-057662P (September 5, 1997), 1997US-057666P (September 5, 1997), 1997US-057667P (September 5, 1997), 1997US-057668P (September 5, 1997), 1997US-057760P (September 5, 1997), 1997US-057761P (September 5, 1997), 1997US-057762P (September 5, 1997), 1997US-057763P (September 5, 1997), 1997US-057764P (September 5, 1997), 1997US-057765P (September 5, 1997), 1997US-057769P (September 5, 1997), 1997US-057770P (September 5, 1997), 1997US-057771P (September 5, 1997), 1997US-057774P (September 5, 1997), 1997US-057775P (September 5, 1997), 1997US-057776P (September 5, 1997), 1997US-057777P (September 5, 1997), 1997US-057778P (September 5, 1997), 1997US-049896P (June 6, 1997), 1998US-092921P (July 15, 1998), 1998US-094657P (July 30, 1998), 1998US-0205258 (December 4, 1998), 2001US-0023282 (December 20, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9854963 A2</u>	December 10, 1998	E	770	A01N037/18
<u>AU 9878120 A</u>	December 21, 1998		000	
<u>EP 1039801 A1</u>	October 4, 2000	E	000	A01N037/18
<u>JP 2002516573 W</u>	June 4, 2002		914	C12N015/09
<u>US 20030092893 A1</u>	May 15, 2003		000	C07K016/00
<u>EP 1428833 A2</u>	June 16, 2004	E	000	C07K014/435

INT-CL (IPC): A01 N 37/18; A01 N 43/04; A61 K 31/711; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 K 48/00; A61 P 7/00; A61 P 25/00; A61 P 29/00; A61 P 35/00; A61 P 37/00; A61 P 43/00; C07 K 14/435; C07 K 14/47; C07 K 16/00; C07 K 16/18; C12 N 1/15; C12 N 1/19; C12 N 1/20; C12 N 1/21; C12 N 5/00; C12 N 5/06; C12 N 5/10; C12 N 15/00; C12 N 15/06; C12 N 15/09; C12 N 15/10; C12 N 15/11; C12 N 15/63; C12 Q 1/00; C12 Q 1/02; C12 Q 1/68; G01 N 33/53

ABSTRACTED-PUB-NO: WO 9854963A

## BASIC-ABSTRACT:

An isolated nucleic acid molecule (NAM) (I) comprising a polynucleotide (PN) having a nucleotide sequence (NS) at least 95% identical to: (a) a PN fragment of one of a total of 207 defined human cDNA sequences given in the specification or a PN fragment of the cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the 207 defined cDNA sequence; (b) a PN which is an (allelic) variant of one of the 207 defined cDNA sequences; (c) a PN encoding a biologically active polypeptide or a polypeptide fragment, domain or epitope of one of the 207 defined amino acid sequences given in the specification or a polypeptide fragment encoded by a cDNA sequence included in ATCC Deposit No. Z which is hybridisable to one of the defined



cDNA sequences; (d) a PN which encodes a species homologue of one of the 207 defined polypeptides; or (e) a PN capable of hybridising under stringent conditions to any one of the PNs specified in (a)-(d), where the PN



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## Search Results - Record(s) 1 through 78 of 78 returned.

☐ 1. Document ID: US 20040132087 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 78

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132087

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132087 A1

TITLE: Novel human enzyme family members and uses thereof

PUBLICATION-DATE: July 8, 2004

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meyers, Rachel E.	Newton	MA	US	
Glucksmann, Maria Alexandria	Lexington	MA	US	
Rudolph-Owen, Laura A.	Medford	MA	US	

US-CL-CURRENT: [435/6](#); [435/226](#), [435/320.1](#), [435/325](#), [435/69.1](#), [530/350](#), [536/23.2](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KMC</a>	<a href="#">Draw Des</a>
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☐ 2. Document ID: US 20040121956 A1

L13: Entry 2 of 78

File: PGPB

Jun 24, 2004

PGPUB-DOCUMENT-NUMBER: 20040121956

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040121956 A1

TITLE: Drosophila G protein coupled receptors, nucleic acids, and methods related to the same

PUBLICATION-DATE: June 24, 2004

### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lowery, David E.	Portage	MI	US	
Smith, Valdin G.	Kalamazoo	MI	US	
Kubiak, Teresa M.	Richland	MI	US	
Larsen, Martha J.	Kalamazoo	MI	US	

US-CL-CURRENT: [514/12](#); [435/320.1](#), [435/348](#), [435/69.1](#), [530/350](#), [536/23.5](#)

ABSTRACT:

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The present invention provides a *Drosophila melanogaster* GPCR (DmGPCR) polypeptides and polynucleotides which identify and encode such a DmGPCR. In addition, the invention provides expression vectors, host cells and methods for its production. The invention also provides methods for the identification of homologs in other animals, and of DmGPCR agonists/antagonists, useful for the treatment of diseases in animals and for the control of insects that are injurious or harmful to plants or animals.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KMNC	Draw Des
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☐ 3. Document ID: US 20040110185 A1

L13: Entry 3 of 78

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110185 A1

TITLE: Human hypothalamic ("HR") receptor polypeptide compositions, methods and uses thereof

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Duhl, David	Oakland	CA	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

A new human hypothalamic receptor has been identified, and the amino acid and nucleotide sequence of the receptor are provided. The nucleotide sequence is useful to construct expression cassettes and vectors to produce host cells which are capable of expressing the receptor, its mutants, fragments, or fusions. Such polypeptides are useful for identifying new agonists and antagonists.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KMNC	Draw Des
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☐ 4. Document ID: US 20040110170 A1

L13: Entry 4 of 78

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110170

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110170 A1

TITLE: Cloning and characterization of calcitonin gene related peptide receptors

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pisegna, Joseph R.	Santa Monica	CA	US	
Wank, Stephen A.	Potomac	MD	US	

h e b b g e e e f e h e h e f b e



US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

## ABSTRACT:

This invention provides CGRP receptors (including both amino acid and nucleic acid sequences). Compositions which include these polypeptides, proteins, nucleic acids, recombinant cells, transgenic animals, and antibodies to the receptors are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KMC	Draw Desc
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☐ 5. Document ID: US 20040009553 A1

L13: Entry 5 of 78

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009553

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009553 A1

TITLE: Novel 27411, 23413, 22438, 23553, 25278, 26212, NARC SC1, NARC 10A, NARC 1, NARC 12, NARC 13, NARC17, NARC 25, NARC 3, NARC 4, NARC 7, NARC 8, NARC 11, NARC 14A, NARC 15, NARC 16, NARC 19, NARC 20, NARC 26, NARC 27, NARC 28, NARC 30, NARC 5, NARC 6, NARC 9, NARC 10C, NARC 8B, NARC 9, NARC2A, NARC 16B, NARC 1C, NARC1A, NARC 25, 86604 and 32222 molecules and uses therefor

PUBLICATION-DATE: January 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria A.	Lexington	MA	US	
Williamson, Mark J.	Saugus	MA	US	
Tsai, Fong-Ying	Newton	MA	US	
Rudolph-Owen, Laura A.	Medford	MA	US	
Kapeller-Libermann, Rosanna	Chestnut Hill	MA	US	
Meyers, Rachel E.	Newton	MA	US	
Chiang, Lillian Wei-Ming	Edison	NJ	US	
Hunter, John Joseph	Somerville	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

## ABSTRACT:

The invention provides isolated nucleic acids molecules and proteins, designated 27411, 23413, 22438, 23553, 25278, 26212, NARC SC1, NARC 10A, NARC 1, NARC 12, NARC 13, NARC 17, NARC 25, NARC 3, NARC 4, NARC 7, NARC 8, NARC 11, NARC 14A, NARC 15, NARC 16, NARC 19, NARC 20, NARC 26, NARC 27, NARC 28, NARC 30, NARC 5, NARC 6, NARC 9, NARC 10C, NARC 8B, NARC 9, NARC2A, NARC 16B, NARC 1C, NARC 1A, NARC 25, 86604 and 32222 nucleic acid molecules and proteins. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing said nucleic acid molecules, host cells into which the expression vectors have been introduced, nonhuman transgenic animals in which a said genes have been introduced or disrupted, fusion proteins, antigenic peptides and antibodies to said proteins. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Desc
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☐ 6. Document ID: US 20030215860 A1

L13: Entry 6 of 78

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215860

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215860 A1

TITLE: Novel 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 molecules and uses therefor

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria A.	Lexington	MA	US	
Silos-Santiago, Inmaculada	Del Mar	CA	US	
Carroll, Joseph M.	Cambridge	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1, 536/23.1

## ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 gene has been introduced or disrupted. The invention still further provides isolated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 proteins, fusion proteins, antigenic peptides and anti-18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Desc
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☐ 7. Document ID: US 20030187222 A1

L13: Entry 7 of 78

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187222 A1

TITLE: Novel galanin receptor

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

h e b b g e e e f e h e h e f b e



NAME	CITY	STATE	COUNTRY	RULE-47
Shi-Hsiang, Shen	Beaconsfield		CA	
Sultan, Ahmad	Dorval		CA	
Wahlestedt, Claes	Montreal		CA	
Walker, Philippe	Montreal		CA	

US-CL-CURRENT: 530/350; 435/320.1, 435/353, 435/455, 435/69.1, 435/7.1, 530/388.22, 536/23.5

## ABSTRACT:

The present invention is directed to a novel receptor for galanin which has been designated as galanin receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either GAL-R2 proteins or nucleic acids.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KMOC	Draw Des
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☐ 8. Document ID: US 20030175883 A1

L13: Entry 8 of 78

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175883

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175883 A1

TITLE: DNA encoding a mammalian LPA receptor and uses thereof

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bard, Jonathan A	Doylestown	PA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

## ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian LPA receptor, a purified mammalian LPA receptor, vectors comprising isolated nucleic acid encoding an mammalian LPA receptor, cells comprising such vectors, antibodies directed to a mammalian LPA receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian LPA receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian LPA receptor, transgenic, nonhuman animals which express DNA encoding a normal or a mutant mammalian LPA receptor, methods of isolating an mammalian LPA receptor, methods of treating an abnormality that is linked to the activity of the mammalian LPA receptor, as well as methods of determining binding of compounds to mammalian LPA receptors.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KMOC	Draw Des
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☐ 9. Document ID: US 20030162944 A1

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L13: Entry 9 of 78

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030162944  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030162944 A1

TITLE: Nucleic acid encoding neuropeptide Y/peptide YY (Y2) receptors and uses thereof

PUBLICATION-DATE: August 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerald, Christophe	Ridgewood	NJ	US	
Walker, Mary W.	Elmwood Park	NJ	US	
Branchek, Theresa	Teaneck	NJ	US	
Weinshank, Richard L.	Teaneck	NJ	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

## ABSTRACT:

This invention provides isolated nucleic acid molecules encoding Y2 receptors, an isolated, purified Y2 receptor protein, vectors comprising isolated nucleic acid molecules encoding Y2 receptors, mammalian, insect, bacterial and yeast cells comprising such vectors, antibodies directed to the Y2 receptors, nucleic acid probes useful for detecting nucleic acid encoding Y2 receptors, antisense oligonucleotides complementary to unique sequences of a nucleic acid molecule which encodes a Y2 receptor, pharmaceutical compounds related to the Y2 receptors, and nonhuman transgenic animals which express nucleic acid encoding a normal or mutant Y2 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and methods of treatment involving Y2 receptors.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KNOC	Drawn Des.
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☐ 10. Document ID: US 20030148449 A1

L13: Entry 10 of 78

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148449  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030148449 A1

TITLE: G protein coupled receptor agonists and antagonists and methods of activating and inhibiting G protein coupled receptors using the same

PUBLICATION-DATE: August 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kuliopulos, Athan	Winchester	MA	US	
Covic, Lidija	Somerville	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 514/12, 514/558, 530/350

h e b b g e e e f e h e h e f b e



## ABSTRACT:

The invention relates generally to G protein coupled receptors and in particular to agonists and antagonists of G protein receptors and methods of using the same.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KWIC	Draw Desc
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☐ 11. Document ID: US 20030138890 A1

L13: Entry 11 of 78

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138890

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138890 A1

TITLE: Novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member

PUBLICATION-DATE: July 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Silos-Santiago, Inmaculada	Jamaica Plain	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	
Weich, Nadine	Brookline	MA	US	
Curtis, Rory A. J.	Framingham	MA	US	
Bandaru, Rajasekhar	Watertown	MA	US	
Kapeller-Libermann, Rosana	Chestnut Hill	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

## ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, and 84241 nucleic acid molecules, which encode novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 gene has been introduced or disrupted. The invention still further provides isolated 20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 proteins, fusion proteins, antigenic peptides and anti-20716, 65494, 44576, 1983, 52881, 2398, 45449, 50289, 52872, 22105, 22109, 22108, 47916, 33395, 31939, or 84241 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KWIC	Draw Desc
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A human-derived bradeion protein, which has the following properties: (i) it is a transmembranous protein; (ii) it has a structure characteristic of growth hormone and cytokine receptors even in a structure of its transmembranous portion when its structure is determined by a hydrophobicity analysis according to Kyte-Doolittle method; (iii) it is expressed at a high level in a human adult brain, and in less amount in the heart, while it is not expressed in other adult organs or fetus; (iv) it induces programmed cell death (apoptosis) when over-expressed in a cultured human nerve cell lines; (v) it induces termination of cell division and aging when over-expressed in a cultured human normal cell; (vi) it is located in cytoplasm, and forms an intracellular aggregate when overexpressed; and (vii) besides human adult neurons, it is specifically expressed in a human colorectal cancer cell line or in a skin cancer cell line, or an analogue thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWAC	Draw Desc
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☐ 14. Document ID: US 20030082738 A1

L13: Entry 14 of 78

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082738

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082738 A1

TITLE: 1983, 52881, 2398, 45449, 50289, and 52872, novel G protein-coupled receptors and uses therefor

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	
Silos-Santiago, Inmaculada	Cambridge	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 1983, 52881, 2398, 45449, 50289, and 52872 nucleic acid molecules, which encode novel G protein-coupled receptor members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 1983, 52881, 2398, 45449, 50289, or 52872 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 1983, 52881, 2398, 45449, 50289, or 52872 gene has been introduced or disrupted. The invention still further provides isolated 1983, 52881, 2398, 45449, 50289, or 52872 proteins, fusion proteins, antigenic peptides and anti-1983, 52881, 2398, 45449, 50289, or 52872 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWAC	Draw Desc
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☐ 15. Document ID: US 20030082641 A1

L13: Entry 15 of 78

File: PGPB

May 1, 2003

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PGPUB-DOCUMENT-NUMBER: 20030082641  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030082641 A1

TITLE: A METHOD OF TREATING DEPRESSION USING A GALR3 RECEPTOR ANTAGONIST

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bard, Jonathan A.	Doylestown	PA	US	
Borowsky, Beth	Montclair	NJ	US	
Smith, Kelli E.	Wayne	NJ	US	
Branchek, Theresa A.	Teaneck	NJ	US	
Gerald, Christophe P.G.	Ridgewood	NJ	US	
Jones, Kenneth A.	Bergenfield	NJ	US	

US-CL-CURRENT: 435/7.21; 435/320.1, 435/325, 435/69.1, 530/350

ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian galanin receptor, an isolated galanin receptor protein, vectors comprising isolated nucleic acid encoding a mammalian galanin receptor, cells comprising such vectors, antibodies directed to a mammalian galanin receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian galanin receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding a mammalian galanin receptor, nonhuman transgenic animals which express DNA encoding a normal or a mutant mammalian galanin receptor, as well as methods of determining binding of compounds to mammalian galanin receptors.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	WORD	Draw Desc
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☐ 16. Document ID: US 20030082201 A1

L13: Entry 16 of 78

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082201  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030082201 A1

TITLE: Multivalent synthetic vaccine for cancer

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mukherjee, Rama	Ghaziabad		IN	
Rao, M.R.S.	Bangalore		IN	
Burman, Arnand C.	Ghaziabad		IN	
Thomas, Becky	Ghaziabad		IN	
Prasad, Sudhanand	Ghaziabad		IN	
Sengupta, Paromita	Ghaziabad		IN	

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US-CL-CURRENT: 424/190.1; 435/252.33, 435/320.1, 435/6, 435/69.3, 530/350, 536/23.2

## ABSTRACT:

Multivalent vaccine comprising peptides from vasoactive intestinal peptide, bombesin, Substance P and epidermal growth factor are described. A method of constructing a multivalent gene for use in various expressions vectors and the protein recombinantly expressed in the prokaryotic expression systems are also described.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KMCC	Draw Desc
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☐ 17. Document ID: US 20030050446 A1

L13: Entry 17 of 78

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050446

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050446 A1

TITLE: Regulation of human neuropeptide y-like g protein-coupled receptor

PUBLICATION-DATE: March 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ramakrishnan, Shyam	Brighton	MA	US	

US-CL-CURRENT: 530/350

## ABSTRACT:

Reagents which regulate human neuropeptide Y G protein-coupled receptor (NPY-GPCR) protein and reagents which bind to human NPY-GPCR gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases including, but not limited to, obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma, ganglioneuroblastoma, Huntington's disease, Alzheimer's disease, and Parkinson's disease.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KMCC	Draw Desc
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☐ 18. Document ID: US 20030049794 A1

L13: Entry 18 of 78

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049794

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049794 A1

TITLE: DNA encoding a human dopamine D1 receptor and uses thereof

PUBLICATION-DATE: March 13, 2003

## INVENTOR-INFORMATION:

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NAME	CITY	STATE	COUNTRY	RULE-47
Weinshank, Richard L.	New York	NY	US	
Hartig, Paul R.	Kinnelon	NJ	US	

US-CL-CURRENT: [435/69.1](#); [435/252.3](#), [435/254.2](#), [435/320.1](#), [435/325](#), [530/350](#), [536/23.5](#)

## ABSTRACT:

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D.sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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☐ 19. Document ID: US 20030027254 A1

L13: Entry 19 of 78

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027254

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027254 A1

TITLE: Processes for preparing compositions involving GALR3 receptor specific compounds

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bard, Jonathan A.	Doylestown	PA	US	
Borowsky, Beth	Montclair	NJ	US	
Smith, Kelli E.	Fair Lawn	NJ	US	
Branchek, Theresa A.	Teaneck	NJ	US	
Gerald, Christophe P.G.	Ridgewood	NJ	US	
Jones, Kenneth A.	Waltham	MA	US	

US-CL-CURRENT: [435/69.1](#); [435/320.1](#), [435/325](#), [530/350](#), [536/23.5](#)

## ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian galanin receptor, an isolated galanin receptor protein, vectors comprising isolated nucleic acid encoding a mammalian galanin receptor, cells comprising such vectors, antibodies directed to a mammalian galanin receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian galanin receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding a mammalian galanin



receptor, nonhuman transgenic animals which express DNA encoding a normal or a mutant mammalian galanin receptor, as well as methods of determining binding of compounds to mammalian galanin receptors.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Des
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☐ 20. Document ID: US 20030022277 A1

L13: Entry 20 of 78

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022277

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030022277 A1

TITLE: HUMAN NEUROPEPTIDE RECEPTOR

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
SOPPET, DANIEL R.	CENTREVILLE	VA	US	
LI, YI	SUNNYVALE	CA	US	
ROSEN, CRAIG A.	LAYTONSVILLE	MD	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 435/7.1, 530/350, 536/23.5

ABSTRACT:

The present invention relates to a novel human protein called human neuropeptide receptor, and isolated polynucleotides encoding this protein. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to this novel human protein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Des
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☐ 21. Document ID: US 20030018184 A1

L13: Entry 21 of 78

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030018184 A1

TITLE: Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sundelin, Johan	Furulund	CA	SE	
Scarborough, Robert M.	Belmont		US	

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US-CL-CURRENT: [536/23.5](#); [435/320.1](#), [435/325](#), [435/455](#), [435/69.1](#), [530/350](#)

## ABSTRACT:

Nucleic acid molecules encoding the C140 cell surface receptor have been cloned and sequenced. The availability of C140 receptor DNA permits the recombinant production of the C140 receptor which can be produced on the surface of a cell, including an oocyte. The nucleic acid molecules are useful in an assay for detecting a substance which affects C140 receptor activity, either receptor agonists or antagonists. Further, the elucidation of the structure of the C140 receptor permits the design of agonist and antagonist compounds which are useful in such assays. The availability of the C140 receptor also permits production of antibodies specifically immunoreactive with one or more antigenic epitopes of the C140 receptor.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw. Des.
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☐ 22. Document ID: US 20020182648 A1

L13: Entry 22 of 78

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182648

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020182648 A1

TITLE: Ordered two-and three-dimensional structures of amphiphilic molecules

PUBLICATION-DATE: December 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mojtabai, Fatemeh	Demarest	NJ	US	

US-CL-CURRENT: [435/7.9](#); [435/194](#), [435/287.2](#), [530/350](#)

## ABSTRACT:

The invention pertains, at least in part, to a method for forming an ordered structure of amphiphilic molecules, such as proteins. The method includes contacting a population of amphiphilic molecules with a interface; compressing said population laterally to an appropriate pressure, such that an ordered structure at the interface is formed. The invention also pertains to the two- and three-dimensional ordered structures that are formed using the planar membrane compression method of the invention.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw. Des.
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☐ 23. Document ID: US 20020172940 A1

L13: Entry 23 of 78

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020172940

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020172940 A1



TITLE: Methods and reagents for isolating biologically active peptides

PUBLICATION-DATE: November 21, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gyuris, Jeno	Winchester	MA	US	
Morris, Aaron J.	Boston	MA	US	

US-CL-CURRENT: 435/5; 435/7.1, 435/7.32, 436/518, 530/324, 530/350

## ABSTRACT:

One aspect of the present invention is the synthesis of a binary method that combines variegated peptide display libraries, e.g., in a "display mode", with soluble secreted peptide libraries, e.g., in a "secretion mode", to yield a method for the efficient isolation of peptides having a desired biological activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Des
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☐ 24. Document ID: US 20020157119 A1

L13: Entry 24 of 78

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020157119

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020157119 A1

TITLE: Identification of activated receptors and ion channels

PUBLICATION-DATE: October 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beachy, Philip A.	Towson	MD	US	
Taipale, Jussi	Baltimore	MD	US	

US-CL-CURRENT: 800/8; 435/194, 435/320.1, 435/354, 435/6, 435/7.1, 530/350

## ABSTRACT:

The present invention related to methods and reagents for generating and using activating mutations of receptors and ion channels.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KWIC	Draw Des
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☐ 25. Document ID: US 20020150973 A1

L13: Entry 25 of 78

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150973

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150973 A1

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TITLE: Compositions and methods for the diagnosis and treatment of body weight disorders, including obesity

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moore, Karen	Maynard	MA	US	
Nagle, Deborah Lynn	Watertown	MA	US	

US-CL-CURRENT: 435/69.1; 435/183, 435/320.1, 435/325, 435/6, 530/350, 536/23.2

## ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	---	KMC	Draw Des
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☐ 26. Document ID: US 20020115155 A1

L13: Entry 26 of 78

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115155

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115155 A1

TITLE: Human neuropeptide receptor

PUBLICATION-DATE: August 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Soppet, Daniel R.	Centreville	VA	US	
Li, Yi	Sunnyvale	CA	US	
Rosen, Craig A.	Laytonsville	MD	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.2

## ABSTRACT:

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Human neuropeptide receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the neuropeptide receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the neuropeptide receptor nucleic acid sequences and an altered level of the soluble form of the receptors.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KWIC	Draw Desc
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☐ 27. Document ID: US 20020115149 A1

L13: Entry 27 of 78

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115149

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115149 A1

TITLE: DNA encoding human 5-HT1D receptors and uses thereof

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Weinshank, Richard L.	New York	NY	US	
Branchek, Theresa	Teaneck	NJ	US	
Hartig, Paul R.	Mahwah	NJ	US	

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 530/350, 536/23.2.

ABSTRACT:

This invention provides isolated nucleic acid molecules encoding human 5-HT.sub.1D receptors, isolated proteins which are human 5-HT.sub.1D receptors, vectors comprising isolated nucleic acid molecules encoding human 5-HT.sub.1D receptors, mammalian cells comprising such vectors, antibodies directed to the human 5-HT.sub.1D receptors, nucleic acid probes useful for detecting nucleic acid encoding human 5-HT.sub.1D receptors, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human 5-HT.sub.1D receptor, pharmaceutical compounds related to human 5-HT.sub.1D receptors, and nonhuman transgenic animals which express DNA a normal or a mutant human 5-HT.sub.1D receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving the human 5-HT.sub.1D receptor.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KWIC	Draw Desc
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☐ 28. Document ID: US 20020098548 A1

L13: Entry 28 of 78

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098548

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098548 A1

h e b b g e e e f e h e h e f b e



TITLE: DNA encoding a human serotonin (5-HT<sub>2</sub>) receptor and uses thereof

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kao, Hung-Teh	Hackensack	NJ	US	
Hartig, Paul R.	Mahwah	NJ	US	
Branchek, Theresa	Teaneck	NJ	US	

US-CL-CURRENT: 435/69.1; 435/235.1, 435/320.1, 435/325, 530/350, 536/23.5

## ABSTRACT:

The present invention provides an isolated nucleic acid molecule encoding an 5-HT.sub.2 receptor, and an isolated protein which is a human 5-HT.sub.2 receptor.

The invention also provides vectors comprising DNA molecules encoding a human 5-HT.sub.2 receptor, and vectors adapted for expression of the 5-HT.sub.2 receptor in bacterial, yeast, or mammalian cells.

In addition, the invention provides a DNA probe useful for detecting nucleic acid encoding the 5-HT.sub.2 receptor, a method for determining whether a ligand which is not known to be capable of binding to the 5-HT.sub.2 receptor can bind to the 5-HT.sub.2 receptor, a method for detecting the presence of 5-HT.sub.2 receptor on the surface of a cell, and a method of screening drugs to identify drugs which specifically interact with, and bind to, the 5-HT.sub.2 receptor.

The invention herein also concerns an antibody directed to the human 5-HT.sub.2 receptor, such as a monoclonal antibody directed to an epitope of the 5-HT.sub.2 receptor present on the surface of a cell and having an amino acid sequence included within the amino acid sequence shown in FIG. 2.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	-----	KWIC	Draw. Desc.
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☐ 29. Document ID: US 20020094334 A1

L13: Entry 29 of 78

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094334

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094334 A1

TITLE: Selective destruction of cells infected with human immunodeficiency virus

PUBLICATION-DATE: July 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Keener, William K.	Idaho Falls	ID	US	
Ward, Thomas E.	Idaho Falls	ID	US	

US-CL-CURRENT: 424/160.1; 530/350, 530/359, 530/826

## ABSTRACT:

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Compositions and methods for selectively killing a cell containing a viral protease are disclosed. The composition is a variant of a protein synthesis inactivating toxin wherein a viral protease cleavage site is interposed between the A and B chains. The variant of the type II ribosome-inactivating protein is activated by digestion of the viral protease cleavage site by the specific viral protease. The activated ribosome-inactivating protein then kills the cell by inactivating cellular ribosomes. A preferred embodiment of the invention is specific for human immunodeficiency virus (HIV) and uses ricin as the ribosome-inactivating protein. In another preferred embodiment of the invention, the variant of the ribosome-inactivating protein is modified by attachment of one or more hydrophobic agents. The hydrophobic agent facilitates entry of the variant of the ribosome-inactivating protein into cells and can lead to incorporation of the ribosome-inactivating protein into viral particles. Still another preferred embodiment of the invention includes a targeting moiety attached to the variants of the ribosome-inactivating protein to target the agent to HIV infectable cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	*****	KWIC	Draw Des
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☐ 30. Document ID: US 20020082202 A1

L13: Entry 30 of 78

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020082202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020082202 A1

TITLE: Screening methods using ligands of the neuropeptide receptor HFGAN72

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bergsma, Derk J.	Berwyn	PA	US	
Brooks, David P.	West Chester	PA	US	
Gellai, Miklos	Devon	PA	US	
Wilson, Shelagh	Beckets Bramfield	TX	GB	
Yanagisawa, Masashi	Dallas		US	

US-CL-CURRENT: 514/12; 435/69.1, 435/7.1, 530/350

ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided. Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	*****	KWIC	Draw Des
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☐ 31. Document ID: US 20020076755 A1



L13: Entry 31 of 78

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076755

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020076755 A1

TITLE: G protein coupled receptor (GPCR) agonists and antagonists and methods of activating and inhibiting GPCR using the same

PUBLICATION-DATE: June 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kuliopulos, Athan	Winchester	MA	US	
Covic, Lidija	Boston	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/7.1, 514/12, 530/350

## ABSTRACT:

The invention relates generally to G protein coupled receptors and in particular to agonists and antagonists of G protein receptors and methods of using the same.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	.....	KMC	Dram Des
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## □ 32. Document ID: US 20020061522 A1

L13: Entry 32 of 78

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061522

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061522 A1

TITLE: 1983, 52881, 2398, 45449, 50289, and 52872 novel G protein-coupled receptors and uses therefor

PUBLICATION-DATE: May 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glucksmann, Maria Alexandra	Lexington	MA	US	
Galvin, Katherine M.	Jamaica Plain	MA	US	
Silos-Santiago, Inmaculada	Cambridge	MA	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/7.1, 530/350, 536/23.5

## ABSTRACT:

The invention provides isolated nucleic acids molecules, designated 1983, 52881, 2398, 45449, 50289, and 52872 nucleic acid molecules, which encode novel G protein-coupled receptor members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 1983, 52881, 2398, 45449, 50289, or 52872 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 1983, 52881, 2398, 45449, 50289, or 52872 gene has been introduced or disrupted. The invention still further

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provides isolated 1983, 52881, 2398, 45449, 50289, or 52872 proteins, fusion proteins, antigenic peptides and anti-1983, 52881, 2398, 45449, 50289, or 52872 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	--- --	KMC	Draw Desc
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☐ 33. Document ID: US 20020056151 A1

L13: Entry 33 of 78

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020056151  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020056151 A1

TITLE: Receptors for peptides from insects

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Antonicek, Horst-Peter	Bergisch Gladbach		DE	
Friedrich, Gabi	Leverkusen		DE	
Schulte, Thomas	Koln		DE	

US-CL-CURRENT: 800/279; 435/320.1, 435/410, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The invention relates to polypeptides having the biological activity of peptide receptors, and to nucleic acids encoding these polypeptides, and in particular to their use for finding active compounds for crop protection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	--- --	KMC	Draw Desc
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☐ 34. Document ID: US 20020048791 A1

L13: Entry 34 of 78

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048791  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020048791 A1

TITLE: Human neuropeptide Y-like G protein-coupled receptor

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zheltnin, Leonid	Madison	CT	US	
Bloomquist, Brian T.	New Haven	CT	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/69.7, 530/350, 536/23.5

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## ABSTRACT:

Reagents which regulate human neuropeptide Y-like G protein-coupled receptor (NPY-like GPCR) protein and reagents which bind to human NPY-like GPCR gene products can play a role in preventing, ameliorating, or correcting dysfunctions or diseases including, but not limited to, obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma, ganglioneuroblastoma, Huntington's disease, Alzheimer's disease, and Parkinson's disease.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	~~~~~	RMK	Draw Des
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☐ 35. Document ID: US 6800729 B2

L13: Entry 35 of 78

File: USPT

Oct 5, 2004

US-PAT-NO: 6800729

DOCUMENT-IDENTIFIER: US 6800729 B2

TITLE: Human G-Protein chemokine receptor HDGNR10 (CCR5 receptor)

DATE-ISSUED: October 5, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Yi	Gaithersburg	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 530/350; 530/300

## ABSTRACT:

Human G-protein chemokine receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein chemokine receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the G-protein chemokine receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

59 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			~~~~~	RMK	Draw Des
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☐ 36. Document ID: US 6770449 B2

L13: Entry 36 of 78

File: USPT

Aug 3, 2004

US-PAT-NO: 6770449

DOCUMENT-IDENTIFIER: US 6770449 B2

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TITLE: Methods of assaying receptor activity and constructs useful in such methods

DATE-ISSUED: August 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barak; Lawrence S.	Durham	NC		
Caron; Marc G.	Hillsborough	NC		
Ferguson; Stephen S.	London			CA
Zhang; Jie	Durham	NC		

US-CL-CURRENT: 435/7.2; 435/325, 435/4, 435/7.1, 530/350

## ABSTRACT:

Described are methods of detecting G-protein coupled receptor (GPCR) activity in vivo and in vitro; methods of assaying GPCR activity; and methods of screening for GPCR ligands, G protein-coupled receptor kinase (GRK) activity, and compounds that interact with components of the GPCR regulatory process. Constructs useful in such methods are described.

2 Claims, 21 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference				KIMC	Draw. Desc.
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☐ 37. Document ID: US 6750026 B2

L13: Entry 37 of 78

File: USPT

Jun 15, 2004

US-PAT-NO: 6750026

DOCUMENT-IDENTIFIER: US 6750026 B2

TITLE: Screening methods using ligands of the neuropeptide receptor HFGAN72

DATE-ISSUED: June 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bergsma; Derk J.	Berwyn	PA		
Brooks; David P.	West Chester	PA		
Gellai; Miklos	Devon	PA		
Wilson; Shelagh	Beckets Bramfield			GB
Yanagisawa; Masashi	Dallas	TX		

US-CL-CURRENT: 435/7.1; 435/252.3, 435/325, 435/4, 530/300, 530/324, 530/399

## ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided.

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Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

2 Claims, 5 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference					KWIC	Draw. Desc
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☐ 38. Document ID: US 6743594 B1

L13: Entry 38 of 78

File: USPT

Jun 1, 2004

US-PAT-NO: 6743594  
DOCUMENT-IDENTIFIER: US 6743594 B1

TITLE: Methods of screening using human G-protein chemokine receptor HDGMR10 (CCR5)

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Yi	Gaithersburg	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 435/7.2; 435/252.3, 435/320.1, 435/69.1, 530/350, 536/23.1

ABSTRACT:

Human G-protein chemokine receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein chemokine receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the G-protein chemokine receptor nucleic acid sequences and detecting a level of the soluble form of the receptors in a sample derived from a host.

66 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference					KWIC	Draw. Desc
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☐ 39. Document ID: US 6737408 B1

L13: Entry 39 of 78

File: USPT

May 18, 2004

US-PAT-NO: 6737408  
DOCUMENT-IDENTIFIER: US 6737408 B1

TITLE: Compounds for control of appetite, blood pressure, cardiovascular response, libido, and circadian rhythm

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DATE-ISSUED: May 18, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Balasubramaniam; Ambikaipakan	Cincinnati	OH		
Chance; William T.	Withamsville	OH		

US-CL-CURRENT: 514/18; 435/7.1, 514/19, 530/300, 530/331, 530/335, 530/344, 530/345

## ABSTRACT:

This invention relates generally to dipeptides and tripeptides and to methods for pharmaceutical treatment of mammals using analogs of such dipeptides and tripeptides. More specifically, the invention relates to tripeptides and their analogs, to pharmaceutical compositions containing such dipeptides and tripeptides and to methods of treatment of mammals using such dipeptides and tripeptides. In addition, the invention relates to methods of treatment of mammals using such dipeptides and tripeptides for control of appetite, blood pressure, cardiovascular response, libido, and circadian rhythm.

12 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Des
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40. Document ID: US 6733990 B1

L13: Entry 40 of 78

File: USPT

May 11, 2004

US-PAT-NO: 6733990

DOCUMENT-IDENTIFIER: US 6733990 B1

TITLE: Nucleic acid encoding 15571, a GPCR-like molecule of the secretin-like family

DATE-ISSUED: May 11, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hodge; Martin R.	Arlington	MA		
Lloyd; Clare	London			GB
Weich; Nadine S.	Brookline	MA		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/471, 435/71.1, 435/71.2, 530/350, 536/23.5

## ABSTRACT:

Novel GPCR-like polypeptides, proteins, and nucleic acid molecules are disclosed. In addition to isolated, full-length GPCR-like proteins, the invention further provides isolated GPCR-like fusion proteins, antigenic peptides, and anti-GPCR-like antibodies. The invention also provides GPCR-like nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a GPCR-like gene has been introduced or disrupted. Diagnostic, screening, and therapeutic methods utilizing compositions of the invention are also

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provided.

12 Claims, 28 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw. Des.
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☐ 41. Document ID: US 6727348 B2

L13: Entry 41 of 78

File: USPT

Apr 27, 2004

US-PAT-NO: 6727348  
DOCUMENT-IDENTIFIER: US 6727348 B2

TITLE: Compositions and methods for the diagnosis and treatment of body weight disorders, including obesity

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moore; Karen	Maynard	MA		
Nagle; Deborah Lynn	Watertown	MA		

US-CL-CURRENT: 530/350; 435/69.1, 530/300, 536/23.1

ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

17 Claims, 181 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 173

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw. Des.
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☐ 42. Document ID: US 6713277 B1

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L13: Entry 42 of 78

File: USPT

Mar 30, 2004

US-PAT-NO: 6713277

DOCUMENT-IDENTIFIER: US 6713277 B1

TITLE: Methods and composition for the diagnosis and treatment of body weight disorders, including obesity

DATE-ISSUED: March 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moore; Karen	Maynard	MA		
Nagle; Deborah Lynn	Watertown	MA		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 530/350, 536/23.1

## ABSTRACT:

The present invention relates to mammalian mahogany genes, including the human mahogany gene, which are novel genes involved in the control of mammalian body weight. The invention encompasses nucleotide sequences of the mahogany gene, host cell expression systems of the mahogany gene, and hosts which have been transformed by these expression systems, including transgenic animals. The invention also encompasses novel mahogany gene products, including mahogany proteins, polypeptides and peptides containing amino acid sequences mahogany proteins, fusion proteins of mahogany proteins polypeptides and peptides, and antibodies directed against such mahogany gene products. The present invention also relates to methods and compositions for the diagnosis and treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia, and for the identification of subjects susceptible to such disorders. Further, the invention relates to methods of using the mahogany gene and gene products of the invention for the identification of compounds which modulate the expression of the mahogany gene and/or the activity of the mahogany gene product. Such compounds can be useful as therapeutic agents in the treatment of mammalian body weight disorders, including obesity, cachexia, and anorexia.

28 Claims, 183 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 173

Full	Title	Citation	Front	Review	Classification	Date	Reference			KWIC	Draw Desc
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☐ 43. Document ID: US 6641820 B1

L13: Entry 43 of 78

File: USPT

Nov 4, 2003

US-PAT-NO: 6641820

DOCUMENT-IDENTIFIER: US 6641820 B1

TITLE: Clostridial toxin derivatives and methods to treat pain

DATE-ISSUED: November 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Donovan; Stephen                      Capistrano Beach                      CA

ABSTRACT:

Methods for treating a bone tumor, in particular pain associated with bone tumor, by administration to a patient of a therapeutically effective amount of an agent are disclosed. The agent may include a clostridial neurotoxin component attached to a targeting moiety, wherein the targeting moiety is selected from the group consisting of transmission compounds which can be released from neurons upon the transmission of pain signals by the neurons, and compounds substantially similar to the transmission compounds.

8 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			*****	KMIC	Draw Des
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☐ 44. Document ID: US 6635432 B1

L13: Entry 44 of 78

File: USPT

Oct 21, 2003

US-PAT-NO: 6635432

DOCUMENT-IDENTIFIER: US 6635432 B1

TITLE: Peptide potentiation of acid-sensory ion channel in pain

DATE-ISSUED: October 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Welsh; Michael J.	Riverside	IA		
Askwith; Candice C.	Iowa City	IA		

US-CL-CURRENT: 435/7.21; 435/252.3, 435/320.1, 435/4, 435/6, 435/69.1, 436/501,  
530/300, 530/350, 536/23.5

ABSTRACT:

An assay for determining agonists, antagonists, or modulators for acid-sensing ion channels. The assay is especially useful for screening analgesics. The screening assay can be provided in a kit form. The assay comprises administering the composition to be screened to cells expressing acid-gated channels and then determining whether the composition inhibits, enhances, or has no effect on the channels when acid is introduced. The determination can be performed by analyzing whether a current is sustained by the cells in the presence of the composition and the acid. This current can be compared to that sustained by the FMRFamide and related peptides.

11 Claims, 26 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 9



Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 45. Document ID: US 6632621 B1

L13: Entry 45 of 78

File: USPT

Oct 14, 2003

US-PAT-NO: 6632621

DOCUMENT-IDENTIFIER: US 6632621 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: G protein-coupled receptor-like receptors and modulators thereof

DATE-ISSUED: October 14, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lowery; David E.	Portage	MI		
Geary; Timothy G.	Kalamazoo	MI		
Kubiak; Teresa M.	Richland	MI		
Larsen; Martha J.	Kalamazoo	MI		

US-CL-CURRENT: 435/7.22; 435/7.2, 435/7.21, 530/350, 530/388.6, 536/23.7, 930/210

## ABSTRACT:

The invention provides neuropeptide ligands, G protein-coupled receptors and methods of screening for modulators of receptor activity. Identified modulators, including neuropeptide ligand mimetics, are useful as biostatic and biocidal agents of varying scope, ranging from lethal activity restricted to particular invertebrate parasites to broad spectrum invertebrate parasitocides active on a wide range of invertebrates, including helminths and insects.

21 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 46. Document ID: US 6627197 B2

L13: Entry 46 of 78

File: USPT

Sep 30, 2003

US-PAT-NO: 6627197

DOCUMENT-IDENTIFIER: US 6627197 B2

TITLE: Selective destruction of cells infected with human immunodeficiency virus

DATE-ISSUED: September 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keener; William K.	Idaho Falls	ID		
Ward; Thomas E.	Idaho Falls	ID		

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US-CL-CURRENT: 424/183.1; 424/94.1, 435/23, 514/2, 530/327, 530/350, 530/370,  
530/377, 530/826

## ABSTRACT:

Compositions and methods for selectively killing a cell containing a viral protease are disclosed. The composition is a variant of a protein synthesis inactivating toxin wherein a viral protease cleavage site is interposed between the A and B chains. The variant of the type II ribosome-inactivating protein is activated by digestion of the viral protease cleavage site by the specific viral protease. The activated ribosome-inactivating protein then kills the cell by inactivating cellular ribosomes. A preferred embodiment of the invention is specific for human immunodeficiency virus (HIV) and uses ricin as the ribosome-inactivating protein. In another preferred embodiment of the invention, the variant of the ribosome-inactivating protein is modified by attachment of one or more hydrophobic agents. The hydrophobic agent facilitates entry of the variant of the ribosome-inactivating protein into cells and can lead to incorporation of the ribosome-inactivating protein into viral particles. Still another preferred embodiment of the invention includes a targeting moiety attached to the variants of the ribosome-inactivating protein to target the agent to HIV infectable cells.

43 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference					KDDC	Draw. Des.
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## 47. Document ID: US 6608025 B1

L13: Entry 47 of 78

File: USPT

Aug 19, 2003

US-PAT-NO: 6608025  
DOCUMENT-IDENTIFIER: US 6608025 B1

TITLE: Human NESP55 polypeptides, polynucleotides and uses thereof

DATE-ISSUED: August 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraser; Douglas	Nottingham			GB
St. Gallay; Steven	Nottingham			GB

US-CL-CURRENT: 514/2; 514/16, 514/18, 530/300, 530/328, 530/330, 530/350

## ABSTRACT:

A substantially pure polypeptide (human NESP55) comprising the amino acid sequence

(SEQ ID NO: 2) IRLEVPKRMDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALL  
RALATSNARAQQRAAAQQRRSFLNAHHRSGAQVFPESPESEDHEHEAD  
LELSLPECLEYEEEFDYETESETESIESETDFETEPETAPTTEPETEPE  
DDRGPVVPKHSTFGQSLTQRLHALKLRSPPASPSRAPSTQEPQSPREGE  
ELKPEDKDPRRDPEESKEPKKEKQRRRCKPKKPTRRDASPEPSKKGPIPIRRH

or a variant, fragment, fusion or derivative thereof, or a fusion of a said variant or fragment or derivative, wherein the polypeptide variant has an amino acid sequence which has at least 90% identity with the amino acid sequence given above.

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NESP55 or fragments thereof may be useful in medicine for the treatment of obesity.

6 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMC	Draw Des
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☐ 48. Document ID: US 6562945 B1

L13: Entry 48 of 78

File: USPT

May 13, 2003

US-PAT-NO: 6562945

DOCUMENT-IDENTIFIER: US 6562945 B1

TITLE: Galanin receptor

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shi-Hsiang; Shen	Beaconsfield			CA
Sultan; Ahmad	Dorval			CA
Wahlestedt; Claes	Montreal			CA
Walker; Philippe	Montreal			CA

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1

ABSTRACT:

The present invention is directed to a novel receptor for galanin which has been designated as galanin receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either GAL-R2 proteins or nucleic acids.

8 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMC	Draw Des
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☐ 49. Document ID: US 6555325 B1

L13: Entry 49 of 78

File: USPT

Apr 29, 2003

US-PAT-NO: 6555325

DOCUMENT-IDENTIFIER: US 6555325 B1

TITLE: System for detection of a functional interaction between a compound and a cellular signal transduction component

DATE-ISSUED: April 29, 2003



## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oehlen; Lambertus J.	Tarrytown	NY		

US-CL-CURRENT: 435/7.31; 435/254.2, 435/350, 435/6, 435/69.1, 435/69.7, 435/7.1,  
435/7.2, 530/350, 536/23.4, 536/23.5

## ABSTRACT:

The present invention makes available a rapid, reproducible, robust assay system for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular protein, e.g., a receptor or ion channel. The subject assay enables rapid screening of large numbers of compounds to identify those which act as an agonist or antagonist to the bioactivity of the cellular protein. In this system, the first cell is treated with a compound, and functional interaction of this compound with a cellular receptor yields a secreted signal. A second cell, bearing a receptor for this secreted signal, makes use of an indicator gene in a signaling pathway coupled to this second receptor. The subject assays include methods of identifying compounds which specifically modulate, for example, heterologous receptors coupled to the pheromone response pathway in yeast. The subject assays are particularly amenable to the identification of specific agonists and antagonists of G protein-coupled receptors.

11 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference					KWIC	Draw. Desc
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☐ 50. Document ID: US 6504008 B1

L13: Entry 50 of 78

File: USPT

Jan 7, 2003

US-PAT-NO: 6504008

DOCUMENT-IDENTIFIER: US 6504008 B1

TITLE: Cell based signal generation

DATE-ISSUED: January 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Jun	Ossining	NY		
Trueheart; Joshua	South Nyack	NY		

US-CL-CURRENT: 530/350; 530/371

## ABSTRACT:

The present invention makes available a rapid, reproducible, robust assay system for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular protein, e.g., a receptor or ion channel. The subject assay enables rapid screening of large numbers of compounds to identify those which act as an agonist or antagonist to the bioactivity of the cellular protein. In particular, the assay of the invention makes use of a cell that harbors a protein that is responsive to a cellular signal transduction pathway. The protein is operatively linked to a polypeptide which causes a detectable signal to be

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generated upon stimulation of the pathway, e.g., when a compound interacts with and modulates the activity of a cellular receptor or ion channel of the cell. Thus, the cell provides a signal generation means comprising a novel fusion protein the expression of which is independent of stimulation/activation of the signal transduction pathway, but the activity of which is responsive to the signal transduction pathway.

6 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference				KINC	Draw Des
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☐ 51. Document ID: US 6500436 B2

L13: Entry 51 of 78

File: USPT

Dec 31, 2002

US-PAT-NO: 6500436

DOCUMENT-IDENTIFIER: US 6500436 B2

TITLE: Clostridial toxin derivatives and methods for treating pain

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donovan; Stephen	Capistrano Beach	CA		

US-CL-CURRENT: 424/239.1, 435/252.3, 435/320.1, 435/325, 435/68.1, 435/69.1,  
435/70.1, 514/12, 514/2, 530/350, 530/412, 536/23.1

ABSTRACT:

Agents for treating pain, methods for producing the agents and methods for treating pain by administration to a patient of a therapeutically effective amount of the agent. The agent can include a clostridial neurotoxin, or a component or fragment or derivative thereof, attached to a targeting moiety, wherein the targeting moiety is selected from a group consisting of transmission compounds which can be released from neurons upon the transmission of pain signals by the neurons, and compounds substantially similar to the transmission compounds.

22 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference				KINC	Draw Des
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☐ 52. Document ID: US 6468767 B1

L13: Entry 52 of 78

File: USPT

Oct 22, 2002

US-PAT-NO: 6468767

DOCUMENT-IDENTIFIER: US 6468767 B1

TITLE: DNA encoding a human dopamine D1 receptor and uses thereof

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DATE-ISSUED: October 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinshank; Richard L.	New York	NY		
Hartig; Paul R.	Kinnelon	NJ		

US-CL-CURRENT: 435/69.1; 530/350

## ABSTRACT:

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D.sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

3 Claims, 10 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMC	Draw. Desc
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☐ 53. Document ID: US 6441133 B1

L13: Entry 53 of 78

File: USPT

Aug 27, 2002

US-PAT-NO: 6441133

DOCUMENT-IDENTIFIER: US 6441133 B1

TITLE: Thyrotropin-releasing hormone receptor 2 (TRHR-2)

DATE-ISSUED: August 27, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Philippe	Montreal			CA

US-CL-CURRENT: 530/350; 435/69.1

## ABSTRACT:

The present invention is directed to the novel receptor for TRH which has been designated as TRH receptor 2. The invention encompasses both the receptor protein as well as nucleic acids encoding the protein. In addition, the present invention is directed to methods and compositions which rely upon either TRHR-2 proteins or nucleic acids.

8 Claims, 0 Drawing figures

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Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Des
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☐ 54. Document ID: US 6423504 B1

L13: Entry 54 of 78

File: USPT

Jul 23, 2002

US-PAT-NO: 6423504

DOCUMENT-IDENTIFIER: US 6423504 B1

TITLE: Human-derived bradeion proteins, DNA coding for the proteins, and uses thereof

DATE-ISSUED: July 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Manami	Ibaraki			JP
Tanaka; Tomoo	Kanagawa			JP

US-CL-CURRENT: 435/7.23; 424/138.1, 435/320.1, 435/6, 435/69.1, 530/350, 530/388.1, 530/389.1, 536/23.5

## ABSTRACT:

A human-derived bradeion protein, which has the following properties: (i) it is a transmembranous protein; (ii) it has a structure characteristic of growth hormone and cytokine receptors even in a structure of its transmembranous portion when its structure is determined by a hydrophobicity analysis according to Kyte-Doolittle method; (iii) it is expressed at a high level in a human adult brain, and in less amount in the heart, while it is not expressed in other adult organs or fetus; (iv) it induces programmed cell death (apoptosis) when over-expressed in a cultured human nerve cell lines; (v) it induces termination of cell division and aging when over-expressed in a cultured human normal cell; (vi) it is located in cytoplasm, and forms an intracellular aggregate when overexpressed; and (vii) besides human adult neurons, it is specifically expressed in a human colorectal cancer cell line or in a skin cancer cell line, or an analogue thereof.

18 Claims, 8 Drawing figures

Exemplary Claim Number: 1,13

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Des
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☐ 55. Document ID: US 6388055 B1

L13: Entry 55 of 78

File: USPT

May 14, 2002

US-PAT-NO: 6388055

DOCUMENT-IDENTIFIER: US 6388055 B1

TITLE: Mouse CC-CKR5 receptor polypeptide

DATE-ISSUED: May 14, 2002

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## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bergsma; Derk J.	Berwyn	PA		
Brawner; Mary E.	Berwyn	PA		
Shabon; Usman	Swarthmore	PA		

US-CL-CURRENT: 530/350; 530/351

## ABSTRACT:

Mouse CC-CKR5 polypeptides and DNA (RNA) encoding such mouse CC-CKR5 and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such mouse CC-CKR5 in the development of gene knockout mice for use as a model for human immunodeficiency virus.

2 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference					KWIC	Draw. Desc
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☐ 56. Document ID: US 6383762 B1

L13: Entry 56 of 78

File: USPT

May 7, 2002

US-PAT-NO: 6383762

DOCUMENT-IDENTIFIER: US 6383762 B1

TITLE: Methods of obtaining compounds that interact with a human serotonin (5-HT2) receptor

DATE-ISSUED: May 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kao; Hung-Teh	Hackensack	NJ		
Hartig; Paul R.	Mahwah	NJ		
Branchek; Theresa	Teaneck	NJ		

US-CL-CURRENT: 435/7.21; 435/325, 435/69.1, 530/350, 536/23.5

## ABSTRACT:

The present invention provides a method of obtaining a composition which comprises determining whether a chemical compound binds to a human 5-HT.sub.2 receptor expressed on the surface of a mammalian cell transfected with a vector adapted for expressing the receptor in the cell, and if the compound binds to the receptor, admixing the compound with a carrier. The present invention further provides a method of obtaining a composition which comprises determining whether a chemical compound binds to and activates or binds to and inhibits activation of a human 5-HT.sub.2 receptor expressed on the surface of a mammalian cell, wherein the human 5-HT.sub.2 receptor is expressed on the surface of a mammalian cell transfected with a vector adapted for expressing the receptor in the cell, and if the compound binds to and activates or binds to and inhibits activation of the receptor, admixing the compound with a carrier.



5 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Desc
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☐ 57. Document ID: US 6348574 B1

L13: Entry 57 of 78

File: USPT

Feb 19, 2002

US-PAT-NO: 6348574  
DOCUMENT-IDENTIFIER: US 6348574 B1

TITLE: Seven transmembrane receptors

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Godiska; Ronald	Bothell	WA		
Gray; Patrick W.	Seattle	WA		
Schweickart; Vicki Louise	Seattle	WA		

US-CL-CURRENT: 530/350; 530/388.22, 536/23.5

ABSTRACT:

DNA sequences encoding seven novel seven transmembrane receptors and variants thereof are disclosed as well as materials and methods for production of the same by recombinant techniques. Antibody substances specific for each of the seven transmembrane receptors are disclosed as useful for the modulation of the ligand/receptor binding reactions of the receptors.

17 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Desc
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☐ 58. Document ID: US 6258556 B1

L13: Entry 58 of 78

File: USPT

Jul 10, 2001

US-PAT-NO: 6258556  
DOCUMENT-IDENTIFIER: US 6258556 B1

TITLE: cDNA and genomic clones encoding human .mu. opiate receptor and the purified gene product

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Uhl; George	Towson	MD	
Johnson; Peter	Perry Hall	MD	
Persico; Antonio M.	Milan		IT
Wang; Jia Bei	Baltimore	MD	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5, 536/24.31, 930/10

## ABSTRACT:

A human .mu. opiate receptor cDNA has been identified from a cerebral cortical cDNA library using sequences from the rat .mu. opiate receptor cDNA. The human .mu. opiate receptor (h.mu.OR1) shares 95% amino acid identity with the rat sequence. The expressed .mu.OR1 recognizes tested opiate drugs and opioid peptides in a sodium- and GTP-sensitive fashion with affinities virtually identical to those displayed by the rat .mu. opiate receptor. Effects on cyclic AMP are similar to those noted for the rat .mu. opiate receptor. Overlapping genomic clones spanning 50 kilobasepairs and hybridizing with the h.mu.OR1 cDNA contains exon sequences encoding the entire open reading frame of the human A opiate receptor are described. Analysis of hybridization to DNA prepared from human rodent hybrid cell lines and chromosomal in situ hybridization studies indicate localization to 6q24-25. An MspI polymorphism, producing a 3.7 kb band, is being used to assess this gene's involvement in neuropsychiatric disorders involving opiate systems.

19 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference				OMC	Draw Des
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☐ 59. Document ID: US 6255059 B1

L13: Entry 59 of 78

File: USPT

Jul 3, 2001

US-PAT-NO: 6255059

DOCUMENT-IDENTIFIER: US 6255059 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods for identifying G protein coupled receptor effectors

DATE-ISSUED: July 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klein; Christine A.	Ossining	NY		
Murphy; Andrew J. M.	Montclair	NJ		
Fowlkes; Dana M.	Chapel Hill	NC		
Broach; James	Princeton	NJ		
Manfredi; John	Ossining	NY		
Paul; Jeremy	Nyack	NY		
Trueheart; Joshua	South Nyack	NY		

US-CL-CURRENT: 435/7.31; 435/254.2, 435/254.21, 435/6, 435/69.1, 435/69.7, 435/7.2, 530/300, 530/350, 536/23.4, 536/23.5

## ABSTRACT:

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The present invention makes available a rapid, effective assay for screening and identifying pharmaceutically effective compounds that specifically interact with and modulate the activity of a cellular receptor or ion channel. The subject assay enables rapid screening of large numbers of polypeptides in a yeast expression library to identifying those polypeptides which induce or antagonize receptor bioactivity. The subject assay is particularly amenable for identifying surrogate ligands for orphan receptors.

18 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 60. Document ID: US 6210967 B1 .

L13: Entry 60 of 78

File: USPT

Apr 3, 2001

US-PAT-NO: 6210967

DOCUMENT-IDENTIFIER: US 6210967 B1

TITLE: DNA encoding a mammalian LPA receptor and uses thereof

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bard; Jonathan A.	Doylestown	PA		

US-CL-CURRENT: 435/361; 435/252.3, 435/320.1, 435/325, 435/348, 435/356, 435/357,  
435/365, 435/366, 530/350, 536/23.5, 536/24.31

ABSTRACT:

This invention provides an isolated nucleic acid encoding a mammalian LPA receptor, a purified mammalian LPA receptor, vectors comprising isolated nucleic acid encoding an mammalian LPA receptor, cells comprising such vectors, antibodies directed to a mammalian LPA receptor, nucleic acid probes useful for detecting nucleic acid encoding a mammalian LPA receptor, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian LPA receptor, transgenic, nonhuman animals which express DNA encoding a normal or a mutant mammalian LPA receptor, methods of isolating an mammalian LPA receptor, methods of treating an abnormality that is linked to the activity of the mammalian LPA receptor, as well as methods of determining binding of compounds to mammalian LPA receptors.

21 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 61. Document ID: US 6133420 A

L13: Entry 61 of 78

File: USPT

Oct 17, 2000

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US-PAT-NO: 6133420

DOCUMENT-IDENTIFIER: US 6133420 A

TITLE: GPR14 polypeptides

DATE-ISSUED: October 17, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ames, Jr.; Robert S.	Havertown	PA		
Sarau; Henry M.	Harleysville	PA		
Foley; James J.	Radnor	PA		
Shabon; Usman	Swarthmore	PA		
Bergsma; Derk	Berwyn	PA		
Chambers; Jonathan K.	Haslingfield			GB

US-CL-CURRENT: 530/350; 435/69.1, 530/300, 530/324, 530/326

## ABSTRACT:

Human GPR14 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing Human GPR14 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkinson's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles de la Tourette's syndrome, among others and diagnostic assays for such conditions.

7 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference				NUMC	Draw Desc
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☐ 62. Document ID: US 6087115 A

L13: Entry 62 of 78

File: USPT

Jul 11, 2000

US-PAT-NO: 6087115

DOCUMENT-IDENTIFIER: US 6087115 A

TITLE: Methods of identifying negative antagonists for G protein coupled receptors

DATE-ISSUED: July 11, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gershengorn; Marvin C.	New York	NY		
Arvanitakis; Leandros	New York	NY		
Geras-Raaka; Elizabeth	Dobbs Ferry	NY		

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Cesarman; Ethel

Hoboken

NJ

US-CL-CURRENT: 435/7.21; 435/252.3, 435/254.11, 435/325, 435/365, 435/6, 435/69.1,  
435/7.2, 435/8, 530/350, 536/23.1, 536/23.72, 536/24.1

## ABSTRACT:

The present invention is directed to a constitutively active G protein coupled receptor of human herpesvirus 8, as well as a method of identifying negative antagonists of a constitutively active G protein coupled receptor. The method comprises co-expressing in a host cell a constitutively active G protein coupled receptor and a reporter protein, wherein expression of the reporter protein is controlled by a promoter responsive to a signalling pathway activated by the constitutively active G protein coupled receptor; exposing the host cell to a test substance; and determining a level of reporter protein activity, wherein the level of reporter protein activity indicates effectiveness of the test substance as a negative antagonist of the constitutively active G protein coupled receptor. The invention further provides a method of preventing tumor formation or cell proliferation caused by a constitutively active G protein coupled receptor. This method comprises administering an amount of the negative antagonist so identified to a subject in an amount effective to prevent tumor formation or cell proliferation.

7 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference					RVOC	Draw Des.
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## 63. Document ID: US 6005074 A

L13: Entry 63 of 78

File: USPT

Dec 21, 1999

US-PAT-NO: 6005074

DOCUMENT-IDENTIFIER: US 6005074 A

TITLE: Cloning of human GPR14 receptor

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shabon; Usman	Swarthmore	PA		
Bergsma; Derk	Berwyn	PA		

US-CL-CURRENT: 530/350; 435/69.1, 530/324

## ABSTRACT:

Human GPR14 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing Human GPR14 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkinson's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders; including anxiety, schizophrenia, manic depression,

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delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome, among others and diagnostic assays for such conditions.

4 Claims, 3 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Dram Desc
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☐ 64. Document ID: US 6001970 A

L13: Entry 64 of 78

File: USPT

Dec 14, 1999

US-PAT-NO: 6001970  
DOCUMENT-IDENTIFIER: US 6001970 A

TITLE: Modified human neuropeptide Y1 Receptors

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cascieri; Margaret A.	East Windsor	NJ		
MacNeil; Douglas John	Westfield	NJ		
Strader; Catherine D.	Verona	NJ		

US-CL-CURRENT: 530/350; 536/23.5

ABSTRACT:

Modified neuropeptide Y receptors having deletions, replacements or additions in the third intracellular domain are identified and methods of making the modified receptors are provided. The invention includes the modified receptors, assays employing the modified receptors, cells expressing the modified receptors, compounds identified through the use of the modified receptors, including modulators of the receptors, and the use of the compounds to treat conditions, including obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma and ganglioneuroblastoma, and Huntington's, Alzheimer's and Parkinson's diseases.

2 Claims, 4 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Dram Desc
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☐ 65. Document ID: US 6001963 A

L13: Entry 65 of 78

File: USPT

Dec 14, 1999

US-PAT-NO: 6001963  
DOCUMENT-IDENTIFIER: US 6001963 A



TITLE: Ligands of the neuropeptide receptor HFGAN72

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bergsma; Derk J.	Berwyn	PA		
Yanagisawa; Masashi	Dallas	TX		

US-CL-CURRENT: 530/324; 530/300, 530/350, 530/399

## ABSTRACT:

Polypeptides of HFGAN72 receptor ligands and polynucleotides encoding the polypeptides are provided. Methods of using these polypeptides to diagnose diseases relating to the under- or over-expression of HFGAN72 receptor ligands are also provided. In addition, methods of identifying agonists or antagonists of the interaction of HFGAN72 receptor ligands with the HFGAN72 receptor are provided. Methods of treatment by administering the identified agonists or antagonists to patients in need thereof are further disclosed.

3 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference					KWIC	Draw Des
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## 66. Document ID: US 5989545 A

L13: Entry 66 of 78

File: USPT

Nov 23, 1999

US-PAT-NO: 5989545

DOCUMENT-IDENTIFIER: US 5989545 A

TITLE: Clostridial toxin derivatives able to modify peripheral sensory afferent functions

DATE-ISSUED: November 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foster; Keith Alan	Wiltshire			GB
Duggan; Michael John	London			GB
Shone; Clifford Charles	Wiltshire			GB

US-CL-CURRENT: 424/183.1; 424/832, 424/94.67, 435/220, 435/69.1, 435/69.7, 514/2, 530/350, 530/388.22, 530/391.7, 530/402

## ABSTRACT:

The invention relates to an agent specific for peripheral sensory afferents. The agent may inhibit the transmission of signals between a primary sensory afferent and a projection neuron by controlling the release of at least one neurotransmitter or neuromodulator from the primary sensory afferent. The agent may be used in or as a pharmaceutical for the treatment of pain, particularly chronic pain.

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43 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWOC	Draw Desc
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☐ 67. Document ID: US 5976814 A

L13: Entry 67 of 78

File: USPT

Nov 2, 1999

US-PAT-NO: 5976814

DOCUMENT-IDENTIFIER: US 5976814 A

TITLE: DNA encoding a human neuropeptide Y/peptide YY/pancreatic polypeptide receptor (Y4) and uses thereof

DATE-ISSUED: November 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bard; Jonathan A.	Wyckoff	NJ		
Walker; Mary W.	Elmwood Park	NJ		
Branchek; Theresa	Teaneck	NJ		
Weinshank; Richard L.	Teaneck	NJ		

US-CL-CURRENT: 435/7.2; 435/252.3, 435/320.1, 435/325, 435/69.1, 530/300, 530/350

## ABSTRACT:

This invention provides methods for determining whether a chemical compound specifically binds to and activates or inhibits activation of a human or rat Y4 receptor.

10 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWOC	Draw Desc
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☐ 68. Document ID: US 5958709 A

L13: Entry 68 of 78

File: USPT

Sep 28, 1999

US-PAT-NO: 5958709

DOCUMENT-IDENTIFIER: US 5958709 A

TITLE: Processes for identifying compounds that bind to the human Y4 receptor

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bard; Jonathan A.	Wyckoff	NJ		

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Walker; Mary W.	Elmwood Park	NJ
Branchek; Theresa	Teaneck	NJ
Weinshank; Richard L.	New York	NY

US-CL-CURRENT: 435/7.21; 435/325, 435/352, 435/363, 435/366, 435/69.1, 530/350

## ABSTRACT:

This invention provides an isolated nucleic acid molecule encoding a human Y4 receptor, an isolated protein which is a human Y4 receptor, vectors comprising an isolated nucleic acid molecule encoding a human Y4 receptors, mammalian cells comprising such vectors, antibodies directed to the human Y4 receptor, nucleic acid probes useful for detecting nucleic acid encoding human Y4 receptors, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human Y4 receptor, pharmaceutical compounds related to human Y4 receptors, and nonhuman transgenic animals which express DNA a normal or a mutant human Y4 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving the human Y4 receptor.

6 Claims, 12 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMC	Draw Desc
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☐ 69. Document ID: US 5932702 A

L13: Entry 69 of 78

File: USPT

Aug 3, 1999

US-PAT-NO: 5932702

DOCUMENT-IDENTIFIER: US 5932702 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Human G-protein coupled receptor

DATE-ISSUED: August 3, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujii; Ryo	Ibaraki			JP
Hinuma; Shuji	Ibaraki			JP
Li; Yi	Gaithersburg	MD		
Ruben; Steven M.	Olney	MD		
Soppet; Daniel R.	Centreville	VA		

US-CL-CURRENT: 530/350; 435/69.1, 530/300, 530/324, 536/23.5

## ABSTRACT:

Human G-protein coupled receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the G-protein coupled receptor polypeptides, respectively. Also disclosed are diagnostic methods for detecting a mutation in the

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G-protein coupled receptor nucleic acid sequences and an altered level of the soluble form of the receptors.

7 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Desc
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☐ 70. Document ID: US 5919901 A

L13: Entry 70 of 78

File: USPT

Jul 6, 1999

US-PAT-NO: 5919901

DOCUMENT-IDENTIFIER: US 5919901 A

TITLE: Neuropeptide Y receptor Y5 and nucleic acid sequences

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hu; Yinghe	North Haven	CT		
McCaleb; Michael L.	Madison	CT		
Bloomquist; Brian T.	New Haven	CT		
Flores-Riveros; Jaime R.	Madison	CT		
Cornfield; Linda J.	Hamden	CT		

US-CL-CURRENT: 530/350; 530/395, 536/23.5

ABSTRACT:

The present invention provides novel NPY/PYY receptor proteins and the nucleic acid sequence encoding them. The invention is directed to the isolation, characterization, and pharmacological use of these receptors and nucleic acids. In particular, this invention provides human and rat NPY/PYY receptors (which we call the NPY Y5 receptor) and nucleic acids. Also provided are recombinant expression constructs useful for transfecting cells and expressing the protein in vitro and in vivo. The invention further provides methods for detecting expression levels of the protein as well as methods for screening for receptor antagonists and agonists to be used for the treatment of obesity or anorexia, respectively.

6 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference				KMIC	Draw Desc
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☐ 71. Document ID: US 5888811 A

L13: Entry 71 of 78

File: USPT

Mar 30, 1999

US-PAT-NO: 5888811

DOCUMENT-IDENTIFIER: US 5888811 A

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DATE-ISSUED: March 30, 1999

NAME	CITY	STATE	ZIP CODE	COUNTRY
Largent; Brian Lee	Chadds Ford	PA		
Chen; Ai-Ru	Edison	NJ		
Kostich; Walter Alan	Hockessin	DE		
Sperle; Karen Marie	Hockessin	DE		

ABSTRACT:

24 Claims, 0 Drawing figures  
Exemplary Claim Number: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference				NAME	Drawn	Des
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Mar 23, 1999

DOCUMENT-IDENTIFIER: US 5885785 A

DATE-ISSUED: March 23, 1999

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kao; Hung-Teh	Hackensack	NJ		
Hartig; Paul R.	Mahwah	NJ		
Branchek; Theresa	Teaneck	NJ		

ABSTRACT:

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receptor, and vectors adapted for expression of the 5-HT.sub.2 receptor in bacterial, yeast, or mammalian cells. In addition, the invention provides a DNA probe useful for detecting nucleic acid encoding the 5-HT.sub.2 receptor, a method for determining whether a ligand which is not known to be capable of binding to the 5-HT.sub.2 receptor can bind to the 5-HT.sub.2 receptor, a method for detecting the presence of 5-HT.sub.2 receptor on the surface of a cell, and a method of screening drugs to identify drugs which specifically interact with, and bind to, the 5-HT.sub.2 receptor. The invention herein also concerns an antibody directed to the human 5-HT.sub.2 receptor, such as a monoclonal antibody directed to an epitope of the 5-HT.sub.2 receptor present on the surface of a cell and having an amino acid sequence included within the amino acid sequence shown in FIGS. 2A-2G.

11 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			KMIC	Draw Des
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☐ 73. Document ID: US 5882855 A

L13: Entry 73 of 78

File: USPT

Mar 16, 1999

US-PAT-NO: 5882855

DOCUMENT-IDENTIFIER: US 5882855 A

TITLE: DNA encoding a human dopamine D.sub.1 receptor and uses thereof

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinshank; Richard L.	New York	NY		
Hartig; Paul R.	Kinnelon	NJ		

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/69.1, 435/7.1, 435/7.2, 530/350

ABSTRACT:

This invention provides isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, isolated proteins which are human dopamine D.sub.1 receptor, vectors comprising isolated nucleic acid molecules encoding a human dopamine D.sub.1 receptor, mammalian cells comprising such vectors, antibodies directed to a human dopamine D.sub.1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human dopamine D.sub.1 receptor, antisense oligonucleotides complementary to any sequences of a nucleic acid molecule which encodes a human dopamine D.sub.1 receptor, pharmaceutical compounds related to human dopamine D.sub.1 receptor, and nonhuman transgenic animals which express DNA a normal or a mutant human dopamine D.sub.1 receptor. This invention further provides methods for determining ligand binding, detecting expression, drug screening, and treatment involving a human dopamine D.sub.1 receptor.

19 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			KMIC	Draw Des
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☐ 74. Document ID: US 5763575 A

L13: Entry 74 of 78

File: USPT

Jun 9, 1998

US-PAT-NO: 5763575

DOCUMENT-IDENTIFIER: US 5763575 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Agonist and antagonist peptides of the C140 receptor

DATE-ISSUED: June 9, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundelin; Johan	Furulund			SE
Scarborough; Robert M.	Belmont	CA		

US-CL-CURRENT: 530/327; 530/300, 530/328, 530/329, 530/330

## ABSTRACT:

Nucleic acid molecules encoding the C140 cell surface receptor have been cloned and sequenced. The availability of C140 receptor DNA permits the recombinant production of the C140 receptor which can be produced on the surface of a cell, including an oocyte. The nucleic acid molecules are useful in an assay for detecting a substance which affects C140 receptor activity, either receptor agonists or antagonists. Further, the elucidation of the structure of the C140 receptor permits the design of agonist and antagonist compounds which are useful in such assays. The availability of the C140 receptor also permits production of antibodies specifically immunoreactive with one or more antigenic epitopes of the C140 receptor.

11 Claims, 20 Drawing figures

Exemplary Claim Number: 1,8

Number of Drawing Sheets: 16

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Full	Title	Citation	Front	Review	Classification	Date	Reference					KINC	Draw Des
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☐ 75. Document ID: US 5759804 A

L13: Entry 75 of 78

File: USPT

Jun 2, 1998

US-PAT-NO: 5759804

DOCUMENT-IDENTIFIER: US 5759804 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Isolated nucleic acid encoding seven transmembrane receptors

DATE-ISSUED: June 2, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Godiska; Ronald	Bothell	WA		
Gray; Patrick W.	Seattle	WA		
Schweickart; Vicki Louise	Seattle	WA		

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US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 530/350, 536/23.5

## ABSTRACT:

DNA sequences encoding seven novel seven transmembrane receptors and variants thereof are disclosed as well as materials and methods for production of the same by recombinant techniques. Antibody substances specific for each of the seven transmembrane receptors are disclosed as useful for the modulation of the ligand/receptor binding reactions of the receptors.

26 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWC	Draw Des
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76. Document ID: US 5683696 A

L13: Entry 76 of 78

File: USPT

Nov 4, 1997

US-PAT-NO: 5683696

DOCUMENT-IDENTIFIER: US 5683696 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Cloning of duffy blood group antigen, gpD

DATE-ISSUED: November 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pogo; Angel Oscar	Pelham	NY		
Chaudhuri; Asok	Rego Park	NY		

US-CL-CURRENT: 424/185.1; 424/184.1, 435/69.3, 435/69.6, 435/71.1, 514/12, 514/13, 514/2, 530/300, 530/358, 530/380, 530/395

## ABSTRACT:

gpD protein, the major subunit of the Duffy blood group antigenic system, has been isolated. gpD protein contains the receptor, by which *P. vivax* enters red cells and causes malaria. gpD has significant sequence homology with human and rabbit interleukin-8 receptors and, therefore, gpD protein likely is a new class of chemoattractant cytokines receptor. gpD protein cDNA has a quasi-total homology with a human hippocampus cDNA clone HHCMF86 and, therefore, gpD protein or a homologous protein may be present as a neuropeptide receptor in brain. gpD protein is present in all red cell progenitors and it may be a receptor for cell proliferation and/or differentiation. gpD protein cDNA identifies in human kidney a mRNA of the same size as the bone marrow. Since the kidney is not and has no potential to become an erythropoietic organ, this putative chemoattractant receptor may have essential renal functions. gpD protein has therapeutic value in the prevention of malaria and in the regulation of erythrocyte, neural and renal functions and can be combined with physiologically acceptable diluents to yield a therapeutic agent suitable for these purposes. Peptides corresponding to a portion of gpD protein that contains the receptor also have been synthesized. Such peptides have therapeutic usefulness identical to that of gpD protein. gpD protein and such peptides also have utility in the production of therapeutics, e.g., antibodies, complementary peptides, etc., which are also useful to treat malaria and regulate essential erythrocyte, neural and renal functions.

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18 Claims, 9 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 77. Document ID: US 5621079 A

L13: Entry 77 of 78

File: USPT

Apr 15, 1997

US-PAT-NO: 5621079  
DOCUMENT-IDENTIFIER: US 5621079 A

TITLE: Neuropeptide Y receptor

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cascieri; Margaret A.	E. Windsor	NJ		
Linemeyer; David L.	Westfield	NJ		
Macneil; Douglas J.	Westfield	NJ		
Shiao; Lin-Lin	Avenel	NJ		
Strader; Catherine D.	Verona	NJ		
Weinberg; David H.	Westfield	NJ		
Tan; Carina P.	Metuchen	NJ		

US-CL-CURRENT: 530/350; 435/69.1

ABSTRACT:

A novel mammalian neuropeptide Y receptor and method of making the receptor are provided. The invention includes DNA encoding the receptor, the receptor, assays employing the receptor, cells expressing the receptor, antibodies which bind specifically to the receptor, RNA encoded by the DNA sequence or its complementary sequence, and single-stranded DNA with a sequence complementary to the RNA which encodes the receptor. The receptor and assays employing the receptor are useful for identifying compounds which bind to the receptor, including specific modulators of the receptor. Such compounds are useful for treating a variety of disease conditions, including obesity, diabetes, anxiety, hypertension, cocaine withdrawal, congestive heart failure, memory enhancement, cardiac and cerebral vasospasm, pheochromocytoma and ganglioneuroblastoma, and Huntington's, Alzheimer's and Parkinson's diseases.

8 Claims, 13 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference				KWIC	Draw Desc
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☐ 78. Document ID: US 5140105 A

L13: Entry 78 of 78

File: USPT

Aug 18, 1992

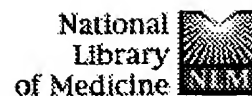
US-PAT-NO: 5140105

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Related Articles, Li



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Related Articles, Li



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Related Articles, Li



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Related Articles, Li



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Related Articles, Li





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
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
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














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


















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















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














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





















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


















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











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





















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
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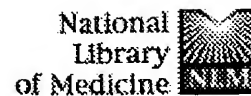
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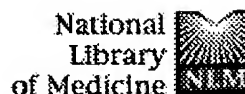
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Willie JT, Chemelli RM, Sinton CM, Yanagisawa M.

Howard Hughes Medical Institute, University of Texas Southwestern Medical Center at Dallas, 75390-9050, USA. willie.jon@tumora.swmed.edu

Orexin-A and orexin-B are neuropeptides originally identified as endogenous ligands for two orphan G-protein-coupled receptors. Orexin neuropeptides (also known as hypocretins) are produced by a small group of neurons in the lateral hypothalamic and perifornical areas, a region classically implicated in the control of mammalian feeding behavior. Orexin neurons project throughout the central nervous system (CNS) to nuclei known to be important in the control of feeding, sleep-wakefulness, neuroendocrine homeostasis, and autonomic regulation. orexin mRNA expression is upregulated by fasting and insulin-induced hypoglycemia. C-fos expression in orexin neurons, an indicator of neuronal activation, is positively correlated with wakefulness and negatively correlated with rapid eye movement (REM) and non-REM sleep states.

Intracerebroventricular administration of orexins has been shown to significantly increase food consumption, wakefulness, and locomotor activity in rodent models. Conversely, an orexin receptor antagonist inhibits food consumption. Targeted disruption of the orexin gene in mice produces a syndrome remarkably similar to human and canine narcolepsy, a sleep disorder characterized by excessive daytime sleepiness, cataplexy, and other pathological manifestations: the intrusion of REM sleep-related features into wakefulness. Furthermore, orexin knockout mice are hypophagic compared with weight and age-matched littermates, suggesting a role in modulating energy metabolism. These findings suggest that the orexin neuropeptide system plays a significant role in feeding, sleep-wakefulness regulation, possibly by coordinating the complex behaviors and physiologic responses of these complementary homeostatic functions.

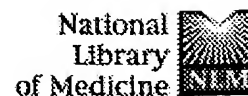
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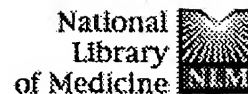
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Sakurai T, Amemiya A, Ishii M, Matsuzaki I, Chemelli RM, Tanaka H, Williams SC, Richardson JA, Kozlowski GP, Wilson S, Arch JR, Buckingham RE, Haynes AC, Carr SA, Annan RS, McNulty DE, Liu WS, Terrett JA, Elshourbagy NA, Bergsma DJ, Yanagisawa M.

Howard Hughes Medical Institute, Department of Molecular Genetics, University of Texas Southwestern Medical Center at Dallas, 75235-9050, USA.

The hypothalamus plays a central role in the integrated control of feeding and energy homeostasis. We have identified two novel neuropeptides, both derived from the same precursor by proteolytic processing, that bind and activate two closely related (previously) orphan G protein-coupled receptors. These peptide termed orexin-A and -B, have no significant structural similarities to known families of regulatory peptides. prepro-orexin mRNA and immunoreactive orexin-A are localized in neurons within and around the lateral and posterior hypothalamus in the adult rat brain. When administered centrally to rats, these peptides stimulate food consumption. prepro-orexin mRNA level is up-regulated upon fasting, suggesting a physiological role for the peptides as mediators in the central feedback mechanism that regulates feeding behavior.

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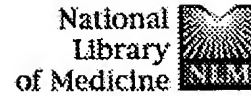
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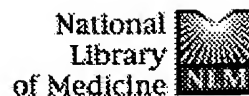
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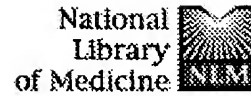
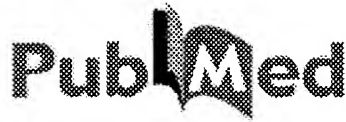
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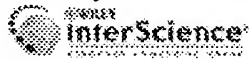
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Hungs M, Mignot E.

Stanford Center for Narcolepsy, Department of Psychiatry Behavioral Science  
Stanford University Medical Center, Palo Alto, Ca 94305-5485, USA.

The discovery that hypocretins are involved in narcolepsy, a disorder associated with excessive daytime sleepiness, cataplexy and unusually rapid transitions to rapid-eye-movement sleep, opens a new field of investigation in the area of sleep control physiology. Hypocretin-1 and -2 (also called orexin-A and -B) are newly discovered neuropeptides processed from a common precursor, preprohypocretin. Hypocretin-containing cells are located exclusively in the lateral hypothalamus with widespread projections to the entire neuroaxis. Two known receptors, Hcrt1 and Hcrt2, have been reported. The functional significance of the hypocretin system is rapidly emerging in both animals and humans. Hypocretin abnormalities cause narcolepsy in dogs, human and mice. The role of the hypocretin system in normal sleep regulation is more uncertain. We believe hypocretin cells drive cholinergic and monoaminergic activity across the sleep cycle. Input from the suprachiasmatic nucleus to hypocretin-containing neurons may explain the occurrence of clock-dependent alertness. Other functions are suggested by pharmacological and neurochemical experiments. These include regulation of food intake, neuroendocrine function, autonomic nervous system activity and energy balance. Copyright 2001 John Wiley & Sons, Inc.

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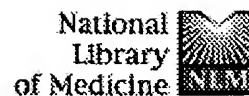
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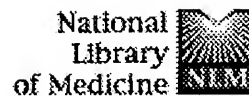
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Center for Narcolepsy, Stanford University Medical School 1201 Welch Road, Stanford, California 94305-5485, USA.

We explored the role of hypocretins in human narcolepsy through histopathologic of six narcolepsy brains and mutation screening of *Hcrt*, *Hcrtr1* and *Hcrtr2* in 7 patients of various human leukocyte antigen and family history status. One *Hcrt* mutation, impairing peptide trafficking and processing, was found in a single case with early onset narcolepsy. In situ hybridization of the perifornical area and peptide radioimmunoassays indicated global loss of hypocretins, without gliosis or signs of inflammation in all human cases examined. Although hypocretin loss does not contribute significantly to genetic predisposition, most cases of human narcolepsy are associated with a deficient hypocretin system.

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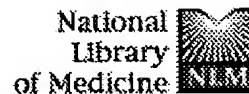
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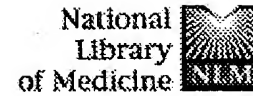
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## Polymorphisms in hypocretin/orexin pathway genes and narcolep

Olafsdottir BR, Rye DB, Scammell TE, Matheson JK, Stefansson K, Gulc JR.

deCODE genetics Inc, Reykjavik, Iceland.

The neuroexcitatory peptide hypocretin and its receptors are central to the pathophysiology of both human and animal models of the disease. In this study American and Icelandic patients with narcolepsy, the authors found no significant association between narcolepsy and single-nucleotide polymorphisms in the genes for hypocretin or its two known receptors, hypocretin receptor-1 and hypocretin receptor-2.

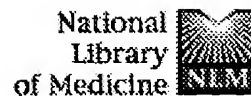
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















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
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
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

















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






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











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











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
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
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
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
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
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
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=> s hypocretin OR orexin

46 FILES SEARCHED...

L1 8500 HYPOCRETIN OR OREXIN

=> S L1 AND receptor

27 FILES SEARCHED...

53 FILES SEARCHED...

L2 4634 L1 AND RECEPTOR

=> S L2 AND human

17 FILES SEARCHED...

25 FILES SEARCHED...

52 FILES SEARCHED...

69 FILES SEARCHED...

L3 2084 L2 AND HUMAN

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'2000' NOT A VALID FIELD CODE

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'2000' NOT A VALID FIELD CODE

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L5 154 L4 AND PY<=2000

=> D L5 1-154

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AN 2001:29148 AGRICOLA

DN IND22300423

TI Reciprocal relation of food intake and sympathetic activity: experimental observations and clinical implications.

AU Bray, G.A.

AV DNAL (RC628.A102)

SO International journal of obesity and related metabolic disorders : journal of the International Association for the study of obesity, \*\*\*June\*\*\*

\*\*\* 2000.\*\*\* Vol. 24, No. suppl.2. p. S8-S17

Publisher: Avenel, NJ : Nature Publishing Company

NTE Paper presented at the symposium on "Endocrinology of obesity: Basic, Clinical and Therapeutic Aspects," September 1998, Venice.

Includes references

CY New Jersey; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension



LA English

L5 ANSWER 2 OF 154 AQUASCI COPYRIGHT 2004 FAO (On behalf of the ASFA  
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AN 2000:15298 AQUASCI  
DN ASFA1 2000  
TI Structure, tissue distribution, and pharmacological characterization of  
Xenopus \*\*\*orexins\*\*\*  
AU Shibahara, M.; Sakurai, T.\*; Nambu, T.; Takenouchi, T.; Iwaasa, H.;  
Egashira, S.-I.; Ihara, M.; Goto, K.  
CS Institute of Basic Medical Sciences, University of Tsukuba, Tsukuba,  
Ibaraki 305-8575, Japan; E-mail: stakeshi@md.tsukuba.ac.j  
SO Peptides, ( \*\*\*19991000\*\*\* ) vol. 20, no. 10, pp. 1169-1176.  
ISSN: 0196-9781.  
DT Journal  
FS ASFA1  
LA English  
SL English

L5 ANSWER 3 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 2001:329544 BIOSIS  
DN PREV200100329544  
TI Regulation of feeding-associated peptides and \*\*\*receptors\*\*\* by  
nicotine.  
AU Li, Ming D. [Reprint author]; Parker, Steven L.; Kane, Justin K.  
CS Department of Pharmacology, University of Tennessee College of Medicine,  
874 Union Avenue, Memphis, TN, 38163, USA  
mdli@utmem.edu  
SO Molecular Neurobiology, (August-October-December, 2000) Vol. 22, No. 1-3,  
pp. 143-165. print.  
ISSN: 0893-7648.  
DT Article  
General Review; (Literature Review)  
LA English  
ED Entered STN: 11 Jul 2001  
Last Updated on STN: 19 Feb 2002

L5 ANSWER 4 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 2001:296011 BIOSIS  
DN PREV200100296011  
TI Molecular genetics of sleep regulation: Role of the \*\*\*orexin\*\*\*  
system.  
AU Chemelli, Richard M. [Reprint author]; willie, Jon [Reprint author];  
Sakurai, Takeshi [Reprint author]; Yanagisawa, Masashi [Reprint author]  
CS Department of Molecular Genetics, Howard Hughes Medical Institute,  
University of Texas Southwestern Medical Center, Dallas, TX, USA  
SO Neuroscience Research Supplement, (2000) No. 24, pp. S4. print.  
Meeting Info.: 23rd Annual Meeting of the Japan Neuroscience Society and  
the 10th Annual Meeting of the Japanese Neural Network Society. Yokohama,  
Japan. September 04-06, 2000. Japan Neuroscience Society; Japanese Neural  
Network Society.  
ISSN: 0921-8696.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 20 Jun 2001  
Last Updated on STN: 19 Feb 2002

L5 ANSWER 5 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 2001:181649 BIOSIS  
DN PREV200100181649  
TI The future of obesity treatment.  
AU Wilding, John [Reprint author]  
CS University Hospital Aintree, Longmoor Lane, Liverpool, L9 7AL, UK  
j.p.h.wilding@liv.ac.uk  
SO Jolles, P. EXS (Basel), (2000) pp. 181-191. EXS (Basel). New approaches to  
drug development. print.  
Publisher: Birkhaeuser Boston, 675 Massachusetts Avenue, Cambridge, MA,  
02139, USA; Birkhaeuser Publishing Ltd., CH-4010, Basel, Switzerland.  
Series: EXS (Basel).  
ISSN: 1023-294X. ISBN: 3-7643-6129-8 (cloth).  
DT Book  
Book; (Book Chapter)



LA English  
 ED Entered STN: 11 Apr 2001  
 Last Updated on STN: 18 Feb 2002

L5 ANSWER 6 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2001:108545 BIOSIS  
 DN PREV200100108545  
 TI \*\*\*Orexin\*\*\* -B conjugated to saporin lesions LH and TMN neurons and  
 produces narcoleptic-like sleep in rats.  
 AU Gerashchenko, D. [Reprint author]; Greco, M. A.; Salin-Pascual, R.;  
 Kilduff, T. S.; Lappi, D. A.; Shiromani, P. J.  
 CS VAMC-West Roxbury, West Roxbury, MA, USA  
 SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
 No.-566.27. print.  
 Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New  
 Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.  
 ISSN: 0190-5295.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 28 Feb 2001  
 Last Updated on STN: 15 Feb 2002

L5 ANSWER 7 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2001:108544 BIOSIS  
 DN PREV200100108544  
 TI Measurement of CSF \*\*\*\*hypocretin\*\*\* -1 levels in familial and sporadic  
 cases of canine narcolepsy.  
 AU Ripley, B. [Reprint author]; Okura, M.; Fujiki, N.; Mignot, E.; Nishino,  
 S.  
 CS Stanford University, Palo Alto, CA, USA  
 SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
 No.-566.26. print.  
 Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New  
 Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.  
 ISSN: 0190-5295.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 28 Feb 2001  
 Last Updated on STN: 15 Feb 2002

L5 ANSWER 8 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2001:107871 BIOSIS  
 DN PREV200100107871  
 TI \*\*\*Orexin\*\*\* -A \*\*\*\*receptor\*\*\* binding is downregulated in rat  
 brain by nicotine and associated with phospholipase C, G-proteins, and  
 cross-reactivity to NPY.  
 AU Kane, J. K. [Reprint author]; Parker, S. L.; Tanaka, H.; Yanagisawa, M.;  
 Malik, K. U.; Li, M. D.  
 CS Univ Tennessee College of Medicine, Memphis, TN, USA  
 SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
 No.-369.14. print.  
 Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New  
 Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.  
 ISSN: 0190-5295.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 28 Feb 2001  
 Last Updated on STN: 15 Feb 2002

L5 ANSWER 9 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2001:107870 BIOSIS  
 DN PREV200100107870  
 TI Effects of nicotine on the expression of plasma leptin and its  
 \*\*\*receptor\*\*\* mRNAs in rat.  
 AU Li, M. D. [Reprint author]; Kane, J. K.; Matta, S. G.; Huang, W.; Fu, Y.;  
 McAllen, K.; Sharp, B. M.  
 CS University of Tennessee Med. Sch., Memphis, TN, USA  
 SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
 No.-369.13. print.



Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.

ISSN: 0190-5295.

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

English

Entered STN: 28 Feb 2001

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2001:107735 BIOSIS

PREV200100107735

Neuromodulation of GABA in developing and mature hypothalamic neurons.

van den Pol, Anthony N. [Reprint author]; Obrietan, Karl

Department of Neurosurgery, Yale University Medical School, New Haven, CT, 06520, USA

Martin, David L.; Olsen, Richard W. (2000) pp. 409-438. GABA in the nervous system: The view at fifty years. print.

Publisher: Lippincott Williams and Wilkins, 530 Walnut Street, Philadelphia, PA, 19106-3261, USA. Series: GABA in the nervous system: The view at fifty years.

ISBN: 0-7817-2267-5 (cloth).

Book

Book; (Book Chapter)

English

Entered STN: 28 Feb 2001

Last Updated on STN: 15 Feb 2002

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2001:89097 BIOSIS

PREV200100089097

\*\*\*Orexins\*\*\* : A role in medullary sympathetic outflow.

Dun, Nae J. [Reprint author]; Dun, Siok Le; Chen, Chiung-Tong; Hwang, Ling Ling; Kwok, Ernest H.; Chang, Jaw-Kang

Department of Pharmacology, James H. Quillen College of Medicine, East Tennessee State University, Johnson City, TN, 37614, USA  
dunnaec@etsu.edu

Regulatory Peptides, (22 December, 2000) Vol. 96, No. 1-2, pp. 65-70. print.

CODEN: REPPDY. ISSN: 0167-0115.

Article

English

Entered STN: 14 Feb 2001

Last Updated on STN: 12 Feb 2002

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2001:87918 BIOSIS

PREV200100087918

The \*\*\*hypocretin\*\*\* / \*\*\*orexin\*\*\* ligand- \*\*\*receptor\*\*\* system: implications for sleep and autonomic regulation.

Kilduff, T. S. [Reprint author]; Sutcliffe, J. G.; Yanagisawa, M.;

Leibowitz, S. F.; Mignot, E.; Siegel, J.

SRI International, Menlo Park, CA, USA

Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-197. print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.

ISSN: 0190-5295.

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

English

Entered STN: 14 Feb 2001

Last Updated on STN: 12 Feb 2002

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2001:61866 BIOSIS

PREV200100061866

Expression and coupling characteristics of the corticotropin-releasing hormone (CRH) and \*\*\*orexin\*\*\* \*\*\*receptors\*\*\* in \*\*\*human\*\*\* fetal adrenals.

Karteris, E. [Reprint author]; Randevo, H. [Reprint author];

Grammatopoulos, D. G. [Reprint author]; Hillhouse, E. W. [Reprint author]



S Molecular Medicine Research Centre, University of Warwick, Coventry, CV4  
 7AL, UK  
 0 Journal of Endocrinology, (November, 2000) Vol. 167, No. Supplement, pp.  
 0C23. print.  
 Meeting Info.: 191st Meeting of the Society for Endocrinology. London,  
 England, UK. November 20-21, 2000. Society for Endocrinology.  
 CODEN: JOENAK. ISSN: 0022-0795.  
 T Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 A English  
 D Entered STN: 31 Jan 2001  
 Last Updated on STN: 12 Feb 2002

5 ANSWER 14 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 N 2001:60228 BIOSIS  
 N PREV200100060228  
 I Identification and characterization of two G protein-coupled  
 \*\*\*receptors\*\*\* for neuropeptide FF.  
 U Bonini, James A. [Reprint author]; Jones, Kenneth A.; Adham, Nika; Forray,  
 Carlos; Artymyshyn, Roman; Durkin, Margaret M.; Smith, Kelli E.; Tamm,  
 Joseph A.; Boteju, Lakmal W.; Lakhlani, Parul P.; Raddatz, Rita; Yao,  
 Wen-Jeng; Ogozalek, Kristine L.; Boyle, Noel; Kouranova, Evguenia V.;  
 Quan, Yong; Vaysse, Pierre J.; Wetzel, John M.; Branchek, Theresa A.;  
 Gerald, Christophe; Borowsky, Beth  
 S Synaptic Pharmaceutical Corp., 215 College Rd., Paramus, NJ, 07652, USA  
 jbonini@synapticcorp.com  
 0 Journal of Biological Chemistry, (December 15, 2000) Vol. 275, No. 50, pp.  
 39324-39331. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 T Article  
 A English  
 D Entered STN: 31 Jan 2001  
 Last Updated on STN: 12 Feb 2002

5 ANSWER 15 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 N 2000:498150 BIOSIS  
 N PREV2000000498271  
 I Nicotine up-regulates expression of \*\*\*orexin\*\*\* and its  
 \*\*\*receptors\*\*\* in rat brain.  
 U Kane, J. K.; Parker, S. L.; Matta, S. G.; Fu, Y.; Sharp, B. M.; Li, M. D.  
 [Reprint author]  
 S Department of Pharmacology, University of Tennessee, 874 Union Avenue,  
 Memphis, TN, 38163, USA  
 0 Endocrinology, (October, 2000) Vol. 141, No. 10, pp. 3623-3629. print.  
 CODEN: ENDOAO. ISSN: 0013-7227.  
 T Article  
 A English  
 D Entered STN: 15 Nov 2000  
 Last Updated on STN: 10 Jan 2002

5 ANSWER 16 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 N 2000:484294 BIOSIS  
 N PREV2000000484294  
 I The \*\*\*hypocretins\*\*\* : Excitatory neuromodulatory peptides for  
 multiple homeostatic systems, including sleep and feeding.  
 U Sutcliffe, J. Gregor [Reprint author]; de Lecea, Luis  
 S Department of Molecular Biology, Scripps Research Institute, 10550 N.  
 Torrey Pines Road, La Jolla, CA, 92037, USA  
 0 Journal of Neuroscience Research, (October 15, 2000) Vol. 62, No. 2, pp.  
 161-168. print.  
 CODEN: JNREDK. ISSN: 0360-4012.  
 T Article  
 General Review; (Literature Review)  
 A English  
 D Entered STN: 8 Nov 2000  
 Last Updated on STN: 10 Jan 2002

5 ANSWER 17 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 N 2000:473470 BIOSIS  
 N PREV2000000473470  
 I Reduced number of \*\*\*hypocretin\*\*\* neurons in \*\*\*human\*\*\*  
 narcolepsy.



AU Thannickal, Thomas C.; Moore, Robert Y.; Nienhuis, Robert; Ramanathan,  
 Lalini; Gulyani, Seema; Aldrich, Michael; Cornford, Marsha; Siegel, Jerome  
 M. [Reprint author]  
 CS Department of Psychiatry, Brain Research Institute, University of  
 California, Los Angeles, CA, USA  
 SO Neuron, (September, 2000) Vol. 27, No. 3, pp. 469-474. print.  
 ISSN: 0896-6273.  
 DT Article  
 LA English  
 ED Entered STN: 1 Nov 2000  
 Last Updated on STN: 10 Jan 2002

L5 ANSWER 18 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2000:473460 BIOSIS  
 DN PREV200000473460  
 TI DLA-DQB1 alleles and bone marrow transplantation experiments in  
 narcoleptic dogs.  
 AU Wagner, J. L.; Storb, R.; Storer, B.; Mignot, E. [Reprint author]  
 CS Stanford University Center for Narcolepsy, 1201 Welch Road, Room P-114,  
 Palo Alto, CA, 94304-5485, USA  
 SO Tissue Antigens, (September, 2000) Vol. 56, No. 3, pp. 223-231. print.  
 CODEN: TSANA2. ISSN: 0001-2815.  
 DT Article  
 LA English  
 ED Entered STN: 1 Nov 2000  
 Last Updated on STN: 10 Jan 2002

L5 ANSWER 19 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2000:446055 BIOSIS  
 DN PREV200000446055  
 TI The hypothalamus and the regulation of energy homeostasis: Lifting the lid  
 on a black box.  
 AU Williams, Gareth [Reprint author]; Harrold, Joanne A.; Cutler, David J.  
 CS Diabetes and Endocrinology Research Group, Department of Medicine,  
 University of Liverpool, Liverpool, L69 3GA, UK  
 SO Proceedings of the Nutrition Society, (August, 2000) Vol. 59, No. 3, pp.  
 385-396. print.  
 CODEN: PNUSA4. ISSN: 0029-6651.  
 DT Conference; (Meeting)  
 LA Conference; (Meeting Paper)  
 ED English  
 Entered STN: 18 Oct 2000  
 Last Updated on STN: 10 Jan 2002

L5 ANSWER 20 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2000:365132 BIOSIS  
 DN PREV200000365132  
 TI Increased body mass index in narcolepsy.  
 AU Schuld, A. [Reprint author]; Hebebrand, J.; Geller, F.; Kraus, T. [Reprint  
 author]; Pollmaecher, T. [Reprint author]  
 CS Max-Planck-Institute of Psychiatry, Munich, Germany  
 SO European Journal of Neuroscience, (2000) Vol. 12, No. Supplement 11, pp.  
 167. print.  
 Meeting Info.: Meeting of the Federation of European Neuroscience  
 Societies. Brighton, UK. June 24-28, 2000.  
 ISSN: 0953-816X.  
 DT Conference; (Meeting)  
 LA Conference; Abstract; (Meeting Abstract)  
 ED Conference; (Meeting Poster)  
 English  
 Entered STN: 23 Aug 2000  
 Last Updated on STN: 8 Jan 2002

L5 ANSWER 21 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
 STN  
 AN 2000:324994 BIOSIS  
 DN PREV200000324994  
 TI Sensitivity of \*\*\*orexin\*\*\* -A binding to phospholipase C inhibitors,  
 neuropeptide Y, and secretin.  
 AU Kane, J. K.; Tanaka, H.; Parker, S. L.; Yanagisawa, M.; Li, M. D. [Reprint  
 author]  
 CS Department of Pharmacology, University of Tennessee College of Medicine,  
 Memphis, TN, 38163, USA



SO Biochemical and Biophysical Research Communications, (June 16, 2000) Vol. 272, No. 3, pp. 959-965. print.  
CODEN: BBRCA9. ISSN: 0006-291X.

DT Article  
LA English  
ED Entered STN: 2 Aug 2000  
Last Updated on STN: 7 Jan 2002

L5 ANSWER 22 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2000:254224 BIOSIS  
DN PREV200000254224  
TI Linkage of \*\*\*human\*\*\* narcolepsy with HLA association to chromosome 4p13-q21.  
AU Nakayama, Junko; Miura, Miki; Honda, Makoto; Miki, Tetsuro; Honda, Yutaka; Arinami, Tadao [Reprint author]  
CS Department of Medical Genetics, Institute of Basic Medical Sciences, University of Tsukuba, Tsukuba, Ibaraki, 305-8575, Japan  
SO Genomics, (April 1, 2000) Vol. 65, No. 1, pp. 84-86. print.  
CODEN: GNMCEP. ISSN: 0888-7543.

DT Article  
LA English  
ED Entered STN: 21 Jun 2000  
Last Updated on STN: 5 Jan 2002

L5 ANSWER 23 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2000:236181 BIOSIS  
DN PREV200000236181  
TI The \*\*\*hypocretins\*\*\* are weak agonists at recombinant \*\*\*human\*\*\* \*\*\*orexin\*\*\* -1 and \*\*\*orexin\*\*\* -2 \*\*\*receptors\*\*\*  
AU Smart, D. [Reprint author]; Jerman, J. C.; Brough, S. J.; Neville, W. A.; Jewitt, F.; Porter, R. A.  
CS Neuroscience Research, Smith Kline Beecham Pharmaceuticals, Third Avenue, Harlow, New Frontiers Science Park, Essex, CM19 5AW, UK  
SO British Journal of Pharmacology, (April, 2000) Vol. 129, No. 7, pp. 1289-1291. print.  
CODEN: BJPCBM. ISSN: 0007-1188.

DT Article  
LA English  
ED Entered STN: 7 Jun 2000  
Last Updated on STN: 5 Jan 2002

L5 ANSWER 24 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2000:185402 BIOSIS  
DN PREV200000185402  
TI Discovery and function of the \*\*\*orexin\*\*\* system: To eat or to sleep?  
AU Chemelli, Richard M. [Reprint author]; Sakurai, Takeshi [Reprint author]; Yanagisawa, Masashi [Reprint author]  
CS Department of Molecular Genetics, Howard Hughes Medical Institute, University of Texas Southwestern Medical Center, Dallas, TX, 75235-9050, USA  
SO Brain Research, (Nov. 27, 1999) Vol. 848, No. 1-2, pp. A18-A19. print.  
Meeting Info.: 2nd Brain Research Interactive Symposium. Miami, FL, USA. October 21-23, 1999.  
CODEN: BRREAP. ISSN: 0006-8993.

DT Conference; (Meeting)  
LA English  
ED Entered STN: 11 May 2000  
Last Updated on STN: 4 Jan 2002

L5 ANSWER 25 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2000:170904 BIOSIS  
DN PREV200000170904  
TI \*\*\*Hypocretin\*\*\* ( \*\*\*orexin\*\*\* ) deficiency in \*\*\*human\*\*\* narcolepsy.  
AU Nishino, Seiji [Reprint author]; Ripley, Beth; Overeem, Sebastiaan; Lammers, Gert Jan; Mignot, Emmanuel [Reprint author]  
CS Center for Narcolepsy, Department of Psychiatry, Stanford University School of Medicine, Stanford, CA, 94305, USA  
SO Lancet (North American Edition), (Jan. 1, 2000) Vol. 355, No. 9197, pp. 39-40. print.



ISSN: 0099-5355.

DT Article  
LA English  
ED Entered STN: 3 May 2000  
Last Updated on STN: 4 Jan 2002

L5 ANSWER 26 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN

AN 2000:123110 BIOSIS

DN PREV200000123110

TI Differential regulation of melanin-concentrating hormone and  
\*\*\*orexin\*\*\* genes in the agouti-related protein/melanocortin-4  
\*\*\*receptor\*\*\* system.

AU Hanada, Reiko; Nakazato, Masamitsu; Matsukura, Shigeru; Murakami, Noboru;  
Yoshimatsu, Hironobu; Sakata, Toshiie [Reprint author]

CS Department of Internal Medicine I, School of Medicine, Oita Medical  
University, Oita, 879-5593, Japan

SO Biochemical and Biophysical Research Communications, (Feb. 5, 2000) Vol.  
268, No. 1, pp. 88-91. print.

CODEN: BBRCA9. ISSN: 0006-291X.

DT Article

LA English

ED Entered STN: 5 Apr 2000

Last Updated on STN: 3 Jan 2002

L5 ANSWER 27 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN

AN 2000:88810 BIOSIS

DN PREV200000088810

TI Solution structure of a new hypothalamic neuropeptide, \*\*\*human\*\*\*  
\*\*\*hypocretin\*\*\* -2/ \*\*\*orexin\*\*\* -B.

AU Lee, Jung-Hoon; Bang, Eunjung; Chae, Kyeong-Jun; Kim, Jin-Young; Lee, Dai  
Woon; Lee, Weontae [Reprint author]

CS Department of Biochemistry, College of Science, Yonsei University,  
Seodaemun-Gu, 134, Shinchon-Dong, Seoul, 120-749, South Korea

SO European Journal of Biochemistry, (Dec., 1999) Vol. 266, No. 3, pp.  
831-839. print.

CODEN: EJBCAI. ISSN: 0014-2956.

DT Article

LA English

ED Entered STN: 10 Mar 2000

Last Updated on STN: 3 Jan 2002

L5 ANSWER 28 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN

AN 2000:60572 BIOSIS

DN PREV200000060572

TI Hypothalamic control of feeding.

AU Lawrence, Catherine B.; Turnbull, Andrew V.; Rothwell, Nancy J. [Reprint  
author]

CS School of Biological Sciences, University of Manchester, Oxford Road,  
Manchester, M13 9PT, UK

SO Current Opinion in Neurobiology, (Dec., 1999) Vol. 9, No. 6, pp. 778-783.  
print.

ISSN: 0959-4388.

DT Article

General Review; (Literature Review)

LA English

ED Entered STN: 9 Feb 2000

Last Updated on STN: 3 Jan 2002

L5 ANSWER 29 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN

AN 1999:477953 BIOSIS

DN PREV199900477953

TI Characterization of recombinant \*\*\*human\*\*\* \*\*\*orexin\*\*\*  
\*\*\*receptor\*\*\* pharmacology in a chinese hamster ovary cell-line using  
FLIPR.

AU Smart, D. [Reprint author]; Jerman, J. C.; Brough, S. J.; Rushton, S. L.;  
Murdock, P. R.; Jewitt, F.; Elshourbagy, N. A.; Ellis, C. E.; Middlemiss,  
D. N.; Brown, F.

CS Neuroscience Research, New Frontiers Science Park, SmithKline Beecham  
Pharmaceuticals, Third Avenue, Harlow, Essex, CM19 5AW, UK

SO British Journal of Pharmacology, (Sept., 1999) Vol. 128, No. 1, pp. 1-3.  
print.

CODEN: BJPCBM. ISSN: 0007-1188.



DT Article  
LA English  
ED Entered STN: 9 Nov 1999  
Last Updated on STN: 3 May 2000

L5 ANSWER 30 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
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AN 1999:459832 BIOSIS  
DN PREV199900459832  
TI Narcolepsy: A key role for \*\*\*hypocretins\*\*\* ( \*\*\*orexins\*\*\* ).  
AU Siegel, Jerome M. [Reprint author]  
CS Neurobiology Research, Veterans Administration Medical Center, North  
Hills, CA, 91343, USA  
SO Cell, (Aug. 20, 1999) Vol. 98, No. 4, pp. 409-412. print.  
CODEN: CELLB5. ISSN: 0092-8674.  
DT Article  
LA English  
ED Entered STN: 1 Nov 1999  
Last Updated on STN: 3 May 2000

L5 ANSWER 31 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
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AN 1999:450329 BIOSIS  
DN PREV199900450329  
TI The sleep disorder canine narcolepsy is caused by a mutation in the  
\*\*\*hypocretin\*\*\* ( \*\*\*orexin\*\*\* ) \*\*\*receptor\*\*\* 2 gene.  
AU Lin, Ling; Faraco, Juliette; Li, Robin; Kadotani, Hiroshi; Rogers,  
William; Lin, Xiaoyan; Qiu, Xiaohong; de Jong, Pieter J.; Nishino, Seiji;  
Mignot, Emmanuel [Reprint author]  
CS Center for Narcolepsy, Department of Psychiatry, Stanford University  
School of Medicine, Stanford, CA, 94305-5485, USA  
SO Cell, (Aug. 6, 1999) Vol. 98, No. 3, pp. 365-376. print.  
CODEN: CELLB5. ISSN: 0092-8674.  
DT Article  
LA English  
ED Entered STN: 26 Oct 1999  
Last Updated on STN: 26 Oct 1999

L5 ANSWER 32 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 1999:226518 BIOSIS  
DN PREV199900226518  
TI Hypothalamic \*\*\*hypocretin\*\*\* ( \*\*\*orexin\*\*\* ): Robust innervation  
of the spinal cord.  
AU van den Pol, Anthony N. [Reprint author]  
CS Department of Neurosurgery, Yale University School of Medicine, 333 Cedar  
Street, New Haven, CT, 06520, USA  
SO Journal of Neuroscience, (April 15, 1999) Vol. 19, No. 8, pp. 3171-3182.  
print.  
CODEN: JNRSDS. ISSN: 0270-6474.  
DT Article  
LA English  
ED Entered STN: 17 Jun 1999  
Last Updated on STN: 17 Jun 1999

L5 ANSWER 33 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
STN  
AN 1999:204030 BIOSIS  
DN PREV199900204030  
TI Sequence and tissue distribution of a novel G-protein-coupled  
\*\*\*receptor\*\*\* expressed prominently in \*\*\*human\*\*\* placenta.  
AU Cikos, Stefan; Gregor, Paul; Koppel, Juraj [Reprint author]  
CS Institute of Animal Physiology, Slovak Academy of Sciences, Soltesovej 4,  
04001, Kosice, Slovakia  
SO Biochemical and Biophysical Research Communications, (March 16, 1999) Vol.  
256, No. 2, pp. 352-356. print.  
CODEN: BBRCA9. ISSN: 0006-291X.  
DT Article  
LA English  
OS Genbank-AF119815; EMBL-AF119815  
ED Entered STN: 26 May 1999  
Last Updated on STN: 26 May 1999

L5 ANSWER 34 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on  
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AN 1999:24843 BIOSIS



DN PREV199900024843  
 TI Chemically defined projections linkings the mediobasal hypothalamus and the lateral hypothalamic area.  
 AU Elias, Carol F.; Saper, Clifford B.; Maratos-Flier, Eleftheria; Tritos, Nicholas A.; Lee, Charlotte; Kelly, Joseph; Tatro, Jeffrey B.; Hoffman, Gloria E.; Ollmann, Michael M.; Barsh, Gregory S.; Sakurai, Takeshi; Yanagisawa, Masashi; Elmquist, Joel K. [Reprint author]  
 CS Div. Endocrinol., Beth Israel Deaconess Med. Cent., 325 Research North, 99 Brookline Ave., Boston, MA 02215, USA  
 SO Journal of Comparative Neurology, (Dec. 28, 1998) vol. 402, No. 4, pp. 442-459. print.  
 CODEN: JCNEAM. ISSN: 0021-9967.  
 DT Article  
 LA English  
 ED Entered STN: 20 Jan 1999  
 Last Updated on STN: 20 Jan 1999

L5 ANSWER 35 OF 154 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
 AN 1998:135519 BIOSIS  
 DN PREV199800135519  
 TI \*\*\*Orexins\*\*\* and \*\*\*orexin\*\*\* \*\*\*receptors\*\*\* : A family of hypothalamic neuropeptides and G protein-coupled \*\*\*receptors\*\*\* that regulate feeding behavior.  
 AU Sakurai, Takeshi; Amemiya, Akira; Ishii, Makoto; Matsuzaki, Ichiyo; Chemelli, Richard M.; Tanaka, Hirokazu; Williams, S. Clay; Richardson, James A.; Kozlowski, Gerald P.; Wilson, Shelagh; Arch, Jonathan R. S.; Buckingham, Robin E.; Haynes, Andrea C.; Carr, Steven A.; Annan, Roland S.; McNulty, Dean E.; Liu, Wu-Schyong; Terrett, Jonathan A.; Elshourbagy, Nabil A.; Bergsma, Derk J.; Yanagisawa, Masahi  
 CS Howard Hughes Med. Inst., Dep. Mol. Genet., Univ. Texas Southwestern Med. Cent. Dallas, Dallas, TX 75235-9050, USA  
 SO Cell, (Feb. 20, 1998) Vol. 92, No. 4, pp. 573-585. print.  
 CODEN: CELLB5. ISSN: 0092-8674.  
 DT Article  
 LA English  
 OS Genbank-AF41240; Genbank-AF41241; Genbank-AF41242; Genbank-AF41243; Genbank-AF41244; Genbank-AF41245; Genbank-AF41246  
 ED Entered STN: 20 Mar 1998  
 Last Updated on STN: 20 Mar 1998

L5 ANSWER 36 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
 AN 2000:30991052 BIOTECHNO  
 TI Forty winks: Molecular basis of sleep disorders  
 AU Sansom C.  
 SO Molecular Medicine Today, ( \*\*\*2000\*\*\* ), 6/12 (453), 5 reference(s)  
 CODEN: MMTOKF ISSN: 1357-4310  
 DT Journal; Note  
 CY United Kingdom  
 LA English

L5 ANSWER 37 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
 AN 2000:30843910 BIOTECHNO  
 TI Transgenic study of energy homeostasis equation: Implications and confounding influences  
 AU Inui A.  
 CS A. Inui, Second Dept. of Internal Medicine, Kobe University School of Medicine, Kusunoki-cho, Chuo-ku, Kobe 650-0017, Japan.  
 E-mail: inui@med.kobe-u.ac.jp  
 SO FASEB Journal, ( \*\*\*2000\*\*\* ), 14/14 (2158-2170), 189 reference(s)  
 CODEN: FAJOEC ISSN: 0892-6638  
 DT Journal; General Review  
 CY United States  
 LA English  
 SL English

L5 ANSWER 38 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
 AN 2000:30598816 BIOTECHNO  
 TI Promising new approaches to the management of obesity  
 AU Mertens I.L.; Van Gaal L.F.  
 CS Dr. L.F. Van Gaal, Dept. Endocrinol. Metab./Clin. Nutr., Faculty of Medicine, University Hospital Antwerp, Wilrijkstraat 10, B-2650 Edegem Antwerp, Belgium.  
 E-mail: luc.van.gaal@uza.uia.ac.be  
 SO Drugs, ( \*\*\*2000\*\*\* ), 60/1 (1-9), 104 reference(s)  
 CODEN: DRUGAY ISSN: 0012-6667



DT Journal; Editorial  
CY New Zealand  
LA English  
SL English

L5 ANSWER 39 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
AN 1999:29502045 BIOTECHNO  
TI \*\*\*Orexins\*\*\* : A new family of neuropeptides  
AU Smart D.  
CS D. Smart, Neuroscience Department, SmithKline Beecham Pharmaceuticals,  
New Frontiers Science Park, Third Avenue, Harlow, Essex CM19 5AW, United  
Kingdom.  
SO British Journal of Anaesthesia, ( \*\*\*\*1999\*\*\*\* ), 83/5 (695-697), 15  
reference(s)  
CODEN: BJANAD ISSN: 0007-0912  
DT Journal; Editorial  
CY United Kingdom  
LA English

L5 ANSWER 40 OF 154 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
AN 1998:28307031 BIOTECHNO  
TI Functional genomics: The search for novel neurotransmitters and  
neuropeptides  
AU Civelli O.  
CS O. Civelli, Department of Pharmacology, University of California, Irvine,  
CA 92697-4625, United States.  
E-mail: ocivelli@uci.edu  
SO FEBS Letters, \*\*\* (23 JUN 1998)\*\*\* , 430/1-2 (55-58), 40 reference(s)  
CODEN: FEBLAL ISSN: 0014-5793  
S0014579398005249  
PUI  
DT Journal; Conference Article  
CY Netherlands  
LA English  
SL English

L5 ANSWER 41 OF 154 CABA COPYRIGHT 2004 CABI on STN  
AN 2000:122862 CABA  
DN 20001417667  
TI Reciprocal relation of food intake and sympathetic activity: experimental  
observations and clinical implications  
AU Bray, G. A.  
CS Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA  
70808, USA.  
SO International Journal of Obesity, ( \*\*\*\*2000\*\*\*\* ) Vol. 24, No. supp 2,  
pp. S8-S17. 101 ref.  
Meeting Info.: Endocrinology of obesity: basic, clinical and therapeutic  
aspects. Satellite symposium of the 8th International Congress of Obesity,  
Venice, Italy, September 1998.  
ISSN: 0307-0565  
DT Journal  
LA English  
ED Entered STN: 20001006  
Last Updated on STN: 20040216

L5 ANSWER 42 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:792265 CAPLUS  
DN 135:339855  
TI Novel ligands of the neuropeptide \*\*\*receptor\*\*\* HGFAN72 and  
therapeutic agonists or antagonists thereof  
IN Bergsma, Derk J.; Brooks, David P.; Gellai, Miklos;; Yanagisawa, Masashi;  
Wilson, Shelagh  
PA Smithkline Beecham Corp., USA; Board of Regents the University of Texas  
System  
SO U.S., 25 pp., Cont.-in-part of U.S. Ser. No. 887,382, abandoned.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6309854	B1	20011030	US 1997-939093	19970926
	US 6001963	A	19991214	US 1997-938548	19970926 <--
	CA 2218452	AA	19980607	CA 1997-2218452	19971216 <--
	CA 2218452	C	20011204		
	EP 849361	A2	19980624	EP 1997-310216	19971217 <--
	EP 849361	A3	20000419		



R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
JP 10229887 A2 19980902 JP 1997-370022 19971217 <--  
US 2002082202 A1 20020627 US 2000-737379 20001215  
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PRAI US 1996-33604P P 19961217  
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RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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L5 ANSWER 43 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:122497 CAPLUS  
DN 135:87214  
TI \*\*\*Orexins\*\*\* ( \*\*\*hypocretins\*\*\* ) - new neuropeptides regulating  
appetite and wake-sleep rhythm  
AU Beltowski, Jerzy  
CS Dept. of Pathophysiol., Univ. School of Medicine, Lublin, 20090, Pol.  
SO Endokrynologia Polska ( \*\*\*2000\*\*\* ), 51(3), 423-428  
CODEN: EDPKA2; ISSN: 0423-104X  
PB Zarzad Główny Polskiego Towarzystwa Endokrynologicznego  
DT Journal; General Review  
LA Polish

L5 ANSWER 44 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:894797 CAPLUS  
DN 134:290633  
TI SAR of the novel neuropeptides \*\*\*orexin\*\*\* -A and B  
AU Jarosinski, Mark A.; Dodson, W. Scott; Harding, Bennet J.; Zamborelli,  
Thomas J.; Lenz, Douglas M.; Cooke, Keegan; Yan, Hai; Baumgartner, James;  
Karbon, E. William  
CS Amgen Inc., Boulder, CO, 80301, USA  
SO Peptides for the New Millennium, Proceedings of the American Peptide  
Symposium, 16th, Minneapolis, MN, United States, June 26-July 1, 1999 ( \*\*\*2000\*\*\* ), Meeting Date 1999, 668-670. Editor(s): Fields, Gregg B.;  
Tam, James P.; Barany, George. Publisher: Kluwer Academic Publishers,  
Dordrecht, Neth.  
CODEN: 69ATHX  
DT Conference  
LA English

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 45 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:856288 CAPLUS  
DN 134:264081  
TI Neuropeptides and obesity  
AU Beck, Bernard  
CS INSERM U.308 Mecanismes de Regulation du Comportement Alimentaire, Nancy,  
54000, Fr.  
SO Nutrition (New York) ( \*\*\*2000\*\*\* ), 16(10), 916-923  
CODEN: NUTRER; ISSN: 0899-9007  
PB Elsevier Science Inc.  
DT Journal; General Review  
LA English

RE.CNT 170 THERE ARE 170 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 46 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:824291 CAPLUS  
DN 134:21425  
TI Protection of endogenous therapeutic peptides from peptidase activity  
through conjugation to blood components  
IN Bridon, Dominique P.; Ezrin, Alan M.; Milner, Peter G.; Holmes, Darren L.;  
Thibaudeau, Karen  
PA Conjuchem, Inc., Can.  
SO PCT Int. Appl., 733 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 3  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2000069900 A2 20001123 WO 2000-US13576 20000517 <--  
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WO 2000069900 C2 20020704  
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

WO 2000070665 A2 20001123 WO 2000-IB763 20000517 <--  
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1105409 A2 20010613 EP 2000-936023 20000517  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

EP 1171582 A2 20020116 EP 2000-929748 20000517  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

EP 1264840 A1 20021211 EP 2002-14617 20000517  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

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JP 2003508350 T2 20030304 JP 2000-618316 20000517  
AU 765753 B2 20030925 AU 2000-51393 20000517  
US 6514500 B1 20030204 US 2000-657332 20000907  
ZA 2001006676 A 20020719 ZA 2001-6676 20010814  
ZA 2001009110 A 20020613 ZA 2001-9110 20011105  
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US 2003108568 A1 20030612 US 2002-288340 20021104  
US 2004127398 A1 20040701 US 2003-722733 20031125  
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RAI US 1999-134406P P 19990517  
US 1999-153406P P 19990910  
US 1999-159783P P 19991015  
EP 2000-932570 A3 20000517  
WO 2000-IB763 W 20000517  
WO 2000-US13576 W 20000517  
US 2000-623548 A1 20000905  
US 2000-657332 A3 20000907  
US 2002-288340 A1 20021104

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2000:769294 CAPLUS

134:37111

Feeding regulatory factors and reproductive function

Irahara, Minoru

Department of Obstetrics and Gynecology, The University of Tokushima

School of Medicine, Tokushima, Japan

Nippon Sanka Fujinka Gakkai Zasshi ( \*\*\*2000\*\*\* ), 52(8), 1215-1221

CODEN: NISFAY; ISSN: 0300-9165

Nippon Sanka Fujinka Gakkai

Journal; General Review

Japanese

ANSWER 48 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN

2000:753204 CAPLUS

134:260755

The future of obesity treatment

wilding, John

University Hospital Aintree, Liverpool, L9 7AL, UK

EXS ( \*\*\*2000\*\*\* ), 89, 181-191

CODEN: EXSEE7; ISSN: 1023-294X

Birkhaeuser Verlag

Journal; General Review

English



5 ANSWER 49 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:669754 CAPLUS  
ON 133:348631  
I A mutation in case of early onset narcolepsy and a generalized absence of  
\*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains  
AU Peyron, Christelle; Farago, Juliette; Rogers, William; Ripley, Beth;  
Overeem, Sebastiaan; Charnay, Yves; Nevsimalova, Sona; Aldrich, Michael;  
Reynolds, David; Albin, Roger; Li, Robin; Hungs, Marcel; Pedrazzoli,  
Mario; Padigaru, Muralidhara; Kucherlapati, Melanie; Fan, Jun; Maki,  
Richard; Lamers, Gert Jan; Bouras, Constantin; Kucherlapati, Raju;  
Nishino, Seiji; Mignot, Emmanuel  
CS Cent. Narcolepsy, Stanford Univ. Med. Sch., Stanford, CA, 94305-5485, USA  
SO Nature Medicine (New York) ( \*\*\*2000\*\*\* ), 6(9), 991-997  
CODEN: NAMEFI; ISSN: 1078-8956  
PB Nature America Inc.  
DT Journal  
LA English  
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

5 ANSWER 50 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:573794 CAPLUS  
ON 133:177102  
I Preparation of phenyl ureas and thioureas as \*\*\*human\*\*\*  
\*\*\*orexin\*\*\* \*\*\*receptor\*\*\* antagonists  
CN Coulton, Steven; Johns, Amanda; Porter, Roderick Alan  
PA Smithkline Beecham Plc, UK  
O PCT Int. Appl., 28 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047580	A2	20000817	WO 2000-EP1142	20000210 <--
WO 2000047580	A3	20001221		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1144409	A2	20011017	EP 2000-907553	20000210
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002536447	T2	20021029	JP 2000-598500	20000210
US 6596730	B1	20030722	US 2001-913228	20011205
GB 1999-3241	A	19990212		
GB 1999-26441	A	19991108		
WO 2000-EP1142	W	20000210		
MARPAT 133:177102				

5 ANSWER 51 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:573791 CAPLUS  
ON 133:164009  
I Preparation of phenyl ureas and thioureas as \*\*\*orexin\*\*\*  
\*\*\*receptor\*\*\* antagonists  
N Coulton, Steven; Johns, Amanda; Porter, Roderick Alan  
A Smithkline Beecham Plc, UK  
O PCT Int. Appl., 45 pp.  
CODEN: PIXXD2  
T Patent  
A English  
AN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047577	A1	20000817	WO 2000-EP1150	20000210 <--
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,			



AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1150977 A1 20011107 EP 2000-906324 20000210  
EP 1150977 B1 20040825  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
JP 2002536445 T2 20021029 JP 2000-598497 20000210  
AT 274512 E 20040915 AT 2000-906324 20000210  
US 6699879 B1 20040302 US 2002-913236 20020429  
PRAI GB 1999-3266 A 19990212  
GB 1999-26430 A 19991108  
WO 2000-EP1150 W 20000210

OS MARPAT 133:164009

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 52 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:573790 CAPLUS  
DN 133:177112  
TI Preparation of cinnamide derivatives as \*\*\*orexin\*\*\* -1  
\*\*\*receptors\*\*\* antagonists  
IN Johns, Amanda; Porter, Roderick Alan  
PA Smithkline Beecham Plc, UK  
SO PCT Int. Appl., 29 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047576	A1	20000817	WO 2000-EP1148	20000210 <--
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRAI GB 1999-3287 A 19990212  
GB 1999-3288 A 19990212

OS MARPAT 133:177112

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 53 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:547968 CAPLUS  
DN 133:250401  
TI The \*\*\*hypocretin\*\*\* / \*\*\*orexin\*\*\* ligand- \*\*\*receptor\*\*\*  
system: implications for sleep and sleep disorders  
AU Kilduff, T. S.; Peyron, C.  
CS SRI International, Molecular Neurobiology Laboratory, Menlo Park, CA,  
94025, USA  
SO Trends in Neurosciences ( \*\*\*2000\*\*\* ), 23(8), 359-365  
CODEN: TNSCDR; ISSN: 0166-2236  
PB Elsevier Science Ltd.  
DT Journal; General Review  
LA English

L5 ANSWER 54 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:513541 CAPLUS  
DN 133:134167  
TI Vaccine-mediated treatment of neurological disorders  
IN During, Matthew John  
PA USA  
SO PCT Int. Appl., 101 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043039	A1	20000727	WO 2000-US2016	20000124 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				



RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2361124 AA 20000727 CA 2000-2361124 20000124 <--  
EP 1146898 A1 20011024 EP 2000-907047 20000124  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
JP 2002535289 T2 20021022 JP 2000-594492 20000124  
US 2004131596 A1 20040708 US 2004-776780 20040210  
PRAI US 1999-116748P A2 19990122  
US 1999-127142P A2 19990331  
US 2000-491896 A3 20000124  
WO 2000-US2016 W 20000124

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 55 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:507556 CAPLUS  
DN 133:217929  
TI \*\*\*Orexin\*\*\* -induced hyperlocomotion and stereotypy are mediated by  
the dopaminergic system  
AU Nakamura, T.; Uramura, K.; Nambu, T.; Yada, T.; Goto, K.; Yanagisawa, M.;  
Sakurai, T.  
CS Institute of Basic Medical Sciences, Department of Pharmacology,  
University of Tsukuba, Tsukuba, Ibaraki, 305-8575, Japan  
SO Brain Research ( \*\*\*2000\*\*\* ), 873(1), 181-187  
CODEN: BRREAP; ISSN: 0006-8993  
PB Elsevier Science B.V.  
DT Journal  
LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 56 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:284343 CAPLUS  
DN 133:38334  
TI Control of food intake via leptin \*\*\*receptors\*\*\* in the hypothalamus  
AU Meister, Bjorn  
CS Department of Neuroscience, Karolinska Institutet, Stockholm, S-171 77,  
Swed.  
SO Vitamins and Hormones (San Diego) ( \*\*\*2000\*\*\* ), 59, 265-304  
CODEN: VIHOAQ; ISSN: 0083-6729  
PB Academic Press  
DT Journal; General Review  
LA English

RE.CNT 151 THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 57 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:264439 CAPLUS  
DN 133:26938  
TI Structure-activity relationship studies on the novel neuropeptide  
\*\*\*orexin\*\*\*  
AU Asahi, Shuichi; Egashira, Shin-Ichiro; Matsuda, Masao; Iwaasa, Hisashi;  
Kanatani, Akio; Ohkubo, Mitsuru; Ihara, Masaki; Sakurai, Takeshi;  
Morishima, Hajime  
CS Banyu Tsukuba Research Institute in collaboration with Merck Research  
Laboratories, Tsukuba, 300-2611, Japan  
SO Peptide Science ( \*\*\*1999\*\*\* ), 36th, 37-40  
CODEN: PSCIFQ; ISSN: 1344-7661  
PB Japanese Peptide Society  
DT Journal  
LA English

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 58 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2000:247790 CAPLUS  
DN 132:277281  
TI Canine narcolepsy  
AU Kadotani, Hiroshi  
CS Sleep Disorders Cent., Stanford Univ., 1201 Welch Road, MSLS, P126,  
Stanford, CA, 94305, USA  
SO No no Kagaku ( \*\*\*2000\*\*\* ), 22(4), 465-468  
CODEN: NNOKFZ; ISSN: 1343-4144  
PB Seiwa Shoten



DT Journal; General Review  
LA Japanese

L5 ANSWER 59 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:795994 CAPLUS

DN 132:31744

TI Gene probes used for genetic profiling in healthcare screening and planning

IN Roberts, Gareth Wyn

PA Genostic Pharma Ltd., UK

SO PCT Int. Appl., 745 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964627	A2	19991216	WO 1999-GB1780	19990604 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 1998-12099	A	19980606		
	GB 1998-13291	A	19980620		
	GB 1998-13611	A	19980624		
	GB 1998-13835	A	19980627		
	GB 1998-14110	A	19980701		
	GB 1998-14580	A	19980707		
	GB 1998-15438	A	19980716		
	GB 1998-15574	A	19980718		
	GB 1998-15576	A	19980718		
	GB 1998-16085	A	19980724		
	GB 1998-16086	A	19980724		
	GB 1998-16921	A	19980805		
	GB 1998-17097	A	19980807		
	GB 1998-17200	A	19980808		
	GB 1998-17632	A	19980814		
	GB 1998-17943	A	19980819		

L5 ANSWER 60 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:795993 CAPLUS

DN 132:31743

TI Gene probes used for genetic profiling in healthcare screening and planning

IN Roberts, Gareth Wyn

PA Genostic Pharma Limited, UK

SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964626	A2	19991216	WO 1999-GB1779	19990604 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2330929	AA	19991216	CA 1999-2330929	19990604 <--
	AU 9941586	A1	19991230	AU 1999-41586	19990604 <--
	AU 766544	B2	20031016		
	AU 9941587	A1	19991230	AU 1999-41587	19990604 <--
	GB 2339200	A1	20000119	GB 1999-12914	19990604 <--
	GB 2339200	B2	20010912		
	EP 1084273	A1	20010321	EP 1999-925207	19990604
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				



IE, FI  
 JP 2003528564 T2 20030930 JP 2000-553616 19990604  
 US 2003198970 A1 20031023 US 2002-206568 20020729  
 PRAI GB 1998-12098 A 19980606  
 GB 1998-28289 A 19981223  
 GB 1998-16086 A 19980724  
 GB 1998-16921 A 19980805  
 GB 1998-17097 A 19980807  
 GB 1998-17200 A 19980808  
 GB 1998-17632 A 19980814  
 GB 1998-17943 A 19980819  
 US 1999-325123 B1 19990603  
 WO 1999-GB1779 W 19990604

L5 ANSWER 61 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:571534 CAPLUS  
 DN 131:284870  
 TI Narcolepsy in \*\*\*orexin\*\*\* knockout mice: molecular genetics of sleep regulation  
 AU Chemelli, Richard M.; Willie, Jon T.; Sinton, Christopher M.; Elmquist, Joel K.; Scammell, Thomas; Lee, Charlotte; Richardson, James A.; Williams, S. Clay; Xiong, Yumei; Kisanuki, Yaz; Fitch, Thomas E.; Nakazato, Masamitsu; Hammer, Robert E.; Saper, Clifford B.; Yanagisawa, Masashi  
 CS Howard Hughes Medical Institute Department of Molecular Genetics  
 Department of Pediatrics, University of Texas Southwestern Medical Center at Dallas, Dallas, TX, 75235-9050, USA  
 SO Cell (Cambridge, Massachusetts) ( \*\*\*1999\*\*\* ), 98(4), 437-451  
 CODEN: CELLB5; ISSN: 0092-8674  
 PB Cell Press  
 DT Journal  
 LA English  
 RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 62 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:566074 CAPLUS  
 DN 131:194807  
 TI Insulinotropic N-terminally truncated GLP-1 lipophilic derivatives with protracted action  
 IN Knudsen, Liselotte Bjerre; Huusfeldt, Per Olaf  
 PA Novo Nordisk A/s, Den.  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 12  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943705	A1	19990902	WO 1999-DK81	19990225 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9926105	A1	19990915	AU 1999-26105	19990225 <--
EP 1056774	A1	20001206	EP 1999-906075	19990225 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002508162	T2	20020319	JP 2000-533455	19990225
PRAI DK 1998-264	A	19980227		
DK 1998-509	A	19980408		
WO 1999-DK81	W	19990225		
OS MARPAT 131:194807				
RE.CNT 7				

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 63 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:404816 CAPLUS  
 DN 131:68557  
 TI Methods of treatment of behavioral and metabolic disorders using novel ligands of the neuropeptide \*\*\*receptor\*\*\* HGFAN72 and agonists or antagonists thereof  
 IN Hagan, James J.; Kennett, Guy A.; Patel, Saraswati R.; Piper, David; Smith, Martin I.; Terrett, Jonathan A.; Upton, Neil



PA SmithKline Beecham PLC, UK  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9930670	A2	19990624	WO 1998-IB2143	19981215 <--
	WO 9930670	A3	19990819		
	W: JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1037655	A2	20000927	EP 1998-964566	19981215 <--
	EP 1037655	B1	20040303		
	R: BE, CH, DE, DK, FR, GB, IT, LI, NL				
	US 2003087801	A1	20030508	US 1998-211823	19981215
	US 6664229	B2	20031216		
	JP 2003527302	T2	20030916	JP 2000-538655	19981215
PRAI	US 1997-69459P	P	19971215		
	US 1997-69785P	P	19971216		
	WO 1998-IB2143	W	19981215		

L5 ANSWER 64 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:90461 CAPLUS  
DN 130:149584  
TI sequence and therapeutic applications for cDNA clone my1 that encodes a novel \*\*\*human\*\*\* 7-transmembrane \*\*\*receptor\*\*\*  
IN Yanagisawa, Masashi  
PA SmithKline Beecham Corporation, USA  
SO Eur. Pat. Appl., 23 pp.  
CODEN: EPXXDW

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 893498	A2	19990127	EP 1998-305765	19980723 <--
	EP 893498	A3	20000126		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6166193	A	20001226	US 1998-119788	19980721 <--
	CA 2238655	AA	19990125	CA 1998-2238655	19980723 <--
	JP 11178588	A2	19990706	JP 1998-242457	19980724 <--
	US 2003083466	A1	20030501	US 2002-282717	20021028
PRAI	US 1997-53790P	P	19970725		
	US 1998-119788	A3	19980721		
	US 2000-676625	A1	20001002		

L5 ANSWER 65 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:414800 CAPLUS  
DN 129:77033  
TI Novel ligands for the G protein-coupled neuropeptide \*\*\*receptor\*\*\*  
HFGAN72 and cDNAs encoding them  
IN Bergsma, Derk J.; Brooks, David P.; Gellai, Miklos; Yanagisawa, Masashi; Wilson, Shelagh  
PA SmithKline Beecham Corp., USA; SmithKline Beecham Plc  
SO Eur. Pat. Appl., 35 pp.  
CODEN: EPXXDW

DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 849361	A2	19980624	EP 1997-310216	19971217 <--
	EP 849361	A3	20000419		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6001963	A	19991214	US 1997-938548	19970926 <--
	US 6309854	B1	20011030	US 1997-939093	19970926
PRAI	US 1996-33604P	P	19961217		
	US 1997-820519	A	19970319		
	US 1997-887382	A	19970702		
	US 1997-939093	A	19970926		

L5 ANSWER 66 OF 154 CAPLUS COPYRIGHT 2004 ACS on STN



AN 1998:182002 CAPLUS  
DN 129:63410  
TI \*\*\*Orexins\*\*\* and \*\*\*Orexin\*\*\* \*\*\*Receptors\*\*\* : A Family of  
Hypothalamic Neuropeptides and G Protein-Coupled \*\*\*Receptors\*\*\* that  
Regulate Feeding Behavior. [Erratum to document cited in CA128:290571]  
AU Sakurai, Takeshi; Amemiya, Akira; Ishii, Makoto; Matsuzaki, Ichiyo;  
Chemelli, Richard M.; Tanaka, Hirokazu; Williams, S. Clay; Richardson,  
James A.; Kozlowski, Gerald P.; Wilson, Shelagh; Arch, Jonathan R. S.;  
Buckingham, Robin E.; Haynes, Andrea C.; Carr, Steven A.; Annan, Roland  
S.; McNulty, Dean E.; Liu, Wu-Schyong; Terrett, Jonathan A.; Elshourbagy,  
Nabil A.; Bergsma, Derk J.; Yanagisawa, Masashi  
CS Howard Hughes Medical Institute, Department of Molecular Genetics,  
University of Texas Southwestern Medical Center at Dallas, Dallas, TX,  
75235-9050, USA  
SO Cell (Cambridge, Massachusetts) ( \*\*\*1998\*\*\* ), 92(5), No pp. Given  
CODEN: CELLB5; ISSN: 0092-8674  
PB Cell Press  
DT Journal  
LA English

L5 ANSWER 67 OF 154 CEN COPYRIGHT 2001 ACS on STN

AN 1999:2064 CEN  
TI Appetite-regulating peptide linked to sleep disorder  
SO Chemical & Engineering News, ( \*\*\*9 Aug 1999\*\*\* ) Vol. 77, No. 32, pp.  
27.  
CODEN: CENEAR, ISSN: 0009-2347.  
PB American Chemical Society  
LA English  
WC 179

L5 ANSWER 68 OF 154 CIN COPYRIGHT 2004 ACS on STN

AN 28(34):34208S CIN  
TI Appetite-regulating peptide linked to sleep disorder  
SO Chem. Mark. Rep., 9 Aug 1999 (19990809), 256(6), p. 27. ISSN: 0009-2347;  
CODEN: CMREF6.  
LA English

L5 ANSWER 69 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN

AN AAB07426 Protein DGENE  
TI Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
useful for producing recombinant cell lines for discovering therapeutic  
agents that modulate the \*\*\*receptor\*\*\* activity -  
IN Zastawny R L  
PA (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
PI \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
AI CA 1999-2284857 19991015  
PRAI US 1998-104514 19981016  
US 1998-173565 19981016  
DT Patent  
LA English  
OS 2000-491457 [44]  
CR N-PSDB: AAA57839  
DESC Amino acid sequence of a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
polypeptide.

L5 ANSWER 70 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN

AN AAB21212 peptide DGENE  
TI Use of an \*\*\*orexin\*\*\* \*\*\*receptor\*\*\* antagonist for treating  
disorders associated with neuronal degeneration resulting from ischemic  
events, nausea and vomiting, irritable bowel syndrome or other conditions  
associated with visceral pain -  
IN Irving E A; Sanger G J  
PA (SMIK) SMITHKLINE BEECHAM PLC.  
PI \*\*\*WO 2000047284 A2 20000817 10p\*\*\*  
AI WO 2000-EP1147 20000210  
PRAI GB 1999-3265 19990212  
GB 1999-3278 19990212  
GB 1999-3282 19990212  
GB 1999-3284 19990212  
GB 1999-6061 19990317  
DT Patent  
LA English  
OS 2000-532977 [48]  
DESC \*\*\*Human\*\*\* \*\*\*orexin\*\*\* -A.



L5 ANSWER 71 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
AN AAB21211 peptide DGENE  
TI New N-(1,5-naphthyridin-4-yl)-N'-phenylurea derivatives, used to treat  
e.g. obesity, diabetes, sleep disorders, pain, migraine, heart and lung  
diseases, depression, schizophrenia, addictions and sexual dysfunction,  
are \*\*\*orexin\*\*\* -1 antagonists -  
IN Coulton S; Johns A; Porter R A  
PA (SMIK) SMITHKLINE BEECHAM PLC.  
PI \*\*\*WO 2000047580 A2 20000817 28p\*\*\*  
AI WO 2000-EP1142 20000210  
PRAI GB 1999-3241 19990212  
GB 1999-26441 19991108  
DT Patent  
LA English  
OS 2000-515054 [46]  
DESC \*\*\*Human\*\*\* \*\*\*orexin\*\*\* -A.

L5 ANSWER 72 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
AN AAB21210 peptide DGENE  
TI Use of new and known N-phenyl-N'-(4-quinolinyl)urea derivatives, used to  
treat e.g. obesity, diabetes, sleep disorders, pain, migraine, heart and  
lung disorders, depression and addictions are \*\*\*orexin\*\*\* -1  
antagonists -  
IN Coulton S; Johns A; Porter R A  
PA (SMIK) SMITHKLINE BEECHAM PLC.  
PI \*\*\*WO 2000047577 A1 20000817 45p\*\*\*  
AI WO 2000-EP1150 20000210  
PRAI GB 1999-3266 19990212  
GB 1999-26430 19991108  
DT Patent  
LA English  
OS 2000-515053 [46]  
DESC \*\*\*Human\*\*\* \*\*\*orexin\*\*\* -A.

L5 ANSWER 73 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
AN AAB21209 peptide DGENE  
TI New N-(quinolin-4-yl)-acrylamide derivatives, used to treat e.g. obesity,  
diabetes, prolactinoma, dwarfism, sleep disorders, narcolepsy, insomnia,  
heart and lung diseases and depression, are \*\*\*orexin\*\*\* -1  
antagonists -  
IN Johns A; Porter R A  
PA (SMIK) SMITHKLINE BEECHAM PLC.  
PI \*\*\*WO 2000047576 A1 20000817 29p\*\*\*  
AI WO 2000-EP1148 20000210  
PRAI GB 1999-3287 19990212  
GB 1999-3288 19990212  
DT Patent  
LA English  
OS 2000-506092 [45]  
DESC \*\*\*Human\*\*\* \*\*\*orexin\*\*\* -A.

L5 ANSWER 74 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
AN AAA57846 DNA DGENE  
TI Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
useful for producing recombinant cell lines for discovering therapeutic  
agents that modulate the \*\*\*receptor\*\*\* activity -  
IN Zastawny R L  
PA (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
PI \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
AI CA 1999-2284857 19991015  
PRAI US 1998-104514 19981016  
US 1998-173565 19981016  
DT Patent  
LA English  
OS 2000-491457 [44]  
DESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
polypeptide.

L5 ANSWER 75 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
AN AAA57845 DNA DGENE  
TI Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
useful for producing recombinant cell lines for discovering therapeutic  
agents that modulate the \*\*\*receptor\*\*\* activity -  
IN Zastawny R L  
PA (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
PI \*\*\*CA 2284857 A1 20000416 59p\*\*\*



I CA 1999-2284857 19991015  
 RAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 T Patent  
 A English  
 S 2000-491457 [44]  
 ESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.

5 ANSWER 76 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57844 DNA DGENE  
 I Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 Zastawny R L  
 (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 CA 1999-2284857 19991015  
 RAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 T Patent  
 A English  
 S 2000-491457 [44]  
 ESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.

5 ANSWER 77 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57843 DNA DGENE  
 I Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 Zastawny R L  
 (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 CA 1999-2284857 19991015  
 RAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 T Patent  
 A English  
 S 2000-491457 [44]  
 ESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.

5 ANSWER 78 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57842 DNA DGENE  
 I Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 Zastawny R L  
 (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 CA 1999-2284857 19991015  
 RAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 T Patent  
 A English  
 S 2000-491457 [44]  
 ESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.

5 ANSWER 79 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57841 DNA DGENE  
 I Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 Zastawny R L  
 (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 CA 1999-2284857 19991015  
 RAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 T Patent  
 A English  
 S 2000-491457 [44]  
 ESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.



L5 ANSWER 80 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57840 DNA DGENE  
 TI Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 IN Zastawny R L  
 PA (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 PI \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 AI CA 1999-2284857 19991015  
 PRAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 DT Patent  
 LA English  
 OS 2000-491457 [44]  
 DESC PCR primer for DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\*  
 polypeptide.

L5 ANSWER 81 OF 154 DGENE COPYRIGHT 2004 The Thomson Corp on STN  
 AN AAA57839 DNA DGENE  
 TI Novel polynucleotide encoding G protein coupled \*\*\*receptor\*\*\* A4,  
 useful for producing recombinant cell lines for discovering therapeutic  
 agents that modulate the \*\*\*receptor\*\*\* activity -  
 IN Zastawny R L  
 PA (ALLX) ALLELIX BIOPHARMACEUTICALS INC.  
 PI \*\*\*CA 2284857 A1 20000416 59p\*\*\*  
 AI CA 1999-2284857 19991015  
 PRAI US 1998-104514 19981016  
 US 1998-173565 19981016  
 DT Patent  
 LA English  
 OS 2000-491457 [44]  
 CR P-PSDB: AAB07426  
 DESC DNA encoding a \*\*\*human\*\*\* A4 \*\*\*receptor\*\*\* polypeptide.

L5 ANSWER 82 OF 154 DRUGU COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN 1999-10257 DRUGU P  
 TI Pharmacological treatment of obesity: therapeutic strategies.  
 AU Kordik C P; Reitz A B  
 CS Johnson+Johnson  
 LO Spring House, Pa., USA  
 SO J.Med.Chem. (42, No. 2, 181-201, 1999) 3 Fig. 3 Tab. 239 Ref.  
 CODEN: JMCMAR ISSN: 0022-2623  
 AV Drug Discovery Division, The R.W. Johnson Pharmaceutical Research  
 Institute, Spring House, Pennsylvania 19477, U.S.A. (e-mail:  
 ckordik@prius.jnj.com).  
 LA English  
 DT Journal  
 FA AB; LA; CT  
 FS Literature

L5 ANSWER 83 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2001041485 EMBASE  
 TI The genetics of sleep apnea.  
 AU Redline S.; Tishler P.V.  
 CS Dr. S. Redline, Rainbow Babies and Childrens' Hosp., Case Western Reserve  
 University, 11100 Euclid Avenue, Cleveland, OH 44106-6003, United States.  
 sxr15@po.cwru.edu  
 SO Sleep Medicine Reviews, (2000) 4/6 (583-602).  
 Refs: 116  
 ISSN: 1087-0792 CODEN: SMREFC  
 CY United Kingdom  
 DT Journal; General Review  
 FS 008 Neurology and Neurosurgery  
 015 Chest Diseases, Thoracic Surgery and Tuberculosis  
 022 Human Genetics  
 LA English  
 SL English

L5 ANSWER 84 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2000417165 EMBASE  
 TI Recent discoveries affecting drug therapy.  
 SO Drug Benefit Trends, (2000) 12/10 (47-52).  
 ISSN: 1080-5826 CODEN: DBTRFN



CY United States  
 DT Journal; Note  
 FS 037 Drug Literature Index  
 004 Microbiology  
 026 Immunology, Serology and Transplantation  
 017 Public Health, Social Medicine and Epidemiology  
 038 Adverse Reactions Titles  
 008 Neurology and Neurosurgery  
 005 General Pathology and Pathological Anatomy  
 015 Chest Diseases, Thoracic Surgery and Tuberculosis  
 018 Cardiovascular Diseases and Cardiovascular Surgery  
 033 Orthopedic Surgery  
 030 Pharmacology  
 003 Endocrinology  
 016 Cancer  
 032 Psychiatry  
 010 Obstetrics and Gynecology  
 040 Drug Dependence, Alcohol Abuse and Alcoholism  
 022 Human Genetics  
 LA English

L5 ANSWER 85 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 AN 2000414083 EMBASE  
 TI [Genetic aspects of sleep disorders].  
 GENETICKE ASPEKTY PORUCH SPANKU.  
 AU Sonka K.; Nevsimalova S.  
 CS Dr. K. Sonka, Neurologicka Klinika, I Lekarska Fakulta, UK a VFN, Katerinska 30, 120 00 Praha 2, Czech Republic. ksonka@lf1.cuni.cz  
 SO Psychiatrie, (2000) 4/SUPPL. 1 (48-53).  
 Refs: 62  
 ISSN: 1211-7579 CODEN: PCHIF7  
 CY Czech Republic  
 DT Journal; General Review  
 FS 022 Human Genetics  
 032 Psychiatry  
 LA Czech  
 SL English; Czech

L5 ANSWER 86 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 AN 2000410534 EMBASE  
 TI 'Neuropeptides 2000'10(th) Annual Meeting of the European Neuropeptide Club, Innsbruck, Austria, May 10-13, 2000, Neuropeptide Antagonists, From Molecular Biology to \*\*\*Receptors\*\*\* and Clinical Applications, Supported by the European Commission DG XII, \*\*\*Human\*\*\* Potential Programme, High Level Scientific Conferences HPCF-CT-1999-00183: Preface.  
 AU Saria A.; Geppetti P.; Urban L.  
 CS A. Saria. alois.saria@uibk.ac.at  
 SO Regulatory Peptides, (22 Dec 2000) 96/1-2 (1).  
 Refs: 0  
 ISSN: 0167-0115 CODEN: REPPDY  
 PUI S 0167-0115(00)00191-9  
 CY Netherlands  
 DT Journal; Editorial  
 FS 029 Clinical Biochemistry  
 003 Endocrinology  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English

L5 ANSWER 87 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
 AN 2000351213 EMBASE  
 TI Obesity: Molecular bases of a multifactorial problem.  
 AU Palou A.; Serra F.; Bonet M.L.; Pico C.  
 CS A. Palou, Dept. Biol. Fonam. Cien. de la salut, Universitat de les Illes Balears, Edifici Guillem Colom de, Ctra. de Valldemossa km. 7.5, 07071 Palma de Mallorca, Spain. dbfapo0@ps.uib.es  
 SO European Journal of Nutrition, (2000) 39/4 (127-144).  
 Refs: 196  
 ISSN: 1436-6207 CODEN: EJNUFZ  
 CY Germany  
 DT Journal; General Review  
 FS 003 Endocrinology  
 005 General Pathology and Pathological Anatomy



029 Clinical Biochemistry  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 88 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2000197707 EMBASE  
 TI Patent focus on new anti-obesity agents: September 1999-February 2000.  
 AU Carpino P.A.  
 CS P.A. Carpino, Dept. Cardiovascular Metabolic Dis., MS 8220-3004, Pfizer  
 Central Research, Eastern Point Rd., Groton, CT 06340, United States  
 SO Expert Opinion on Therapeutic Patents, (2000) 10/6 (819-831).  
 Refs: 66  
 ISSN: 1354-3776 CODEN: EOTPEG  
 CY United Kingdom  
 DT Journal; General Review  
 FS 003 Endocrinology  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 89 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2000178801 EMBASE  
 TI Pharmacology of appetite suppression.  
 AU Halford J.C.G.; Blundell J.E.  
 CS Dr. J.C.G. Halford, Department of Psychology, University of Liverpool,  
 Liverpool L69 3BX, United Kingdom  
 SO Progress in Drug Research, (2000) 54/- (25-58).  
 Refs: 151  
 ISSN: 0071-786X CODEN: FAZMAE  
 CY Switzerland  
 DT Journal; General Review  
 FS 003 Endocrinology  
 030 Pharmacology  
 037 Drug Literature Index  
 038 Adverse Reactions Titles  
 LA English  
 SL English

L5 ANSWER 90 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2000156813 EMBASE  
 TI Separate systems for serotonin and leptin in appetite control.  
 AU Halford J.C.G.; Blundell J.E.  
 CS Dr. J.C.G. Halford, Department of Psychology, Eleanor Rathbone Building,  
 University of Liverpool, Liverpool L69 7ZA, United Kingdom.  
 j.c.g.halford@liverpool.ac.uk  
 SO Annals of Medicine, (2000) 32/3 (222-232).  
 Refs: 87  
 ISSN: 0785-3890 CODEN: ANMDEU  
 CY United Kingdom  
 DT Journal; General Review  
 FS 003 Endocrinology  
 008 Neurology and Neurosurgery  
 029 Clinical Biochemistry  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 91 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 2000136660 EMBASE  
 TI Central nervous system control of food intake.  
 AU Schwartz M.W.; Woods S.C.; Porte D. Jr.; Seeley R.J.; Baskin D.G.  
 CS M.W. Schwartz, Department of Medicine, Harborview Medical Center,  
 University of Washington, Seattle, WA 98104-2499, United States  
 SO Nature, (6 Apr 2000) 404/6778 (661-671).  
 Refs: 121  
 ISSN: 0028-0836 CODEN: NATUAS  
 CY United Kingdom  
 DT Journal; General Review



FS 003 Endocrinology  
008 Neurology and Neurosurgery  
029 Clinical Biochemistry  
037 Drug Literature Index

LA English  
SL English

L5 ANSWER 92 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

AN 2000077573 EMBASE

TI The controls of eating: Brain meanings of food stimuli.

AU Smith G.P.

CS G.P. Smith, Department of Psychiatry, Joan/Sanford I. Weill Med. College,  
New York-Presbyterian Hospital, 21 Bloomingdale Road, White Plains, NY  
10605, United States. gpsmith@med.cornell.edu

SO Progress in Brain Research, (2000) 122/- (173-186).

Refs: 73

ISSN: 0079-6123 CODEN: PBRRA4

CY Netherlands

DT Journal; General Review

FS 002 Physiology

008 Neurology and Neurosurgery

LA English

L5 ANSWER 93 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

AN 2000051986 EMBASE

TI [Narcolepsy: A key role for \*\*\*hypocretins\*\*\* ].

NARCOLEPSIE: UN ROLE-CLE DES HYPOCRETINES.

AU Billiard M.; Dauvilliers Y.

CS M. Billiard, Service de neurologie B, Hopital Gui-de-Chauliac, 34295  
Montpellier, France

SO Medecine/Sciences, (2000) 16/1 (108-110).

Refs: 16

ISSN: 0767-0974 CODEN: MSMSE4

CY France

DT Journal; (Short Survey)

FS 008 Neurology and Neurosurgery

022 Human Genetics

LA French

L5 ANSWER 94 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

AN 2000000868 EMBASE

TI Peptides crossing the blood-brain barrier: Some unusual observations.

AU Kastin A.J.; Pan W.; Maness L.M.; Banks W.A.

CS A.J. Kastin, VA Medical Center, Tulane University School of Medicine, 1601  
Perdido Street, New Orleans, LA 70112-1262, United States

SO Brain Research, (1999) 848/1-2 (96-100).

Refs: 58

ISSN: 0006-8993 CODEN: BRREAP

PUI S 0006-8993(99)01961-7

CY Netherlands

DT Journal; General Review

FS 002 Physiology

026 Immunology, Serology and Transplantation

029 Clinical Biochemistry

003 Endocrinology

005 General Pathology and Pathological Anatomy

008 Neurology and Neurosurgery

LA English

SL English

L5 ANSWER 95 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

AN 1999377313 EMBASE

TI Regulation of gastric acid secretion.

AU Schubert M.L.

CS Dr. M.L. Schubert, McGuire VAMC, Code 111N, Gastroenterology Division,  
1201 Broad Rock Boulevard, Richmond, VA 23249, United States.

Mitchell.Schubert@med.va.gov

SO Current Opinion in Gastroenterology, (1999) 15/6 (457-462).

Refs: 44

ISSN: 0267-1379 CODEN: COGAEK

CY United States

DT Journal; Article



FS 005 General Pathology and Pathological Anatomy  
 037 Drug Literature Index  
 048 Gastroenterology  
 LA English  
 SL English

L5 ANSWER 96 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 1999374968 EMBASE  
 TI \*\*\*Orexins\*\*\* and \*\*\*orexin\*\*\* \*\*\*receptors\*\*\* : Implication in  
 feeding behavior.  
 AU Sakurai T.  
 CS Dr. T. Sakurai, Institute of Basic Medical Sciences, University of  
 Tsukuba, Tsukuba, Ibaraki 305-8575, Japan. stakeshi@md.tsukuba.ac.jp  
 SO Regulatory Peptides, (1999) 85/1 (25-30).  
 Refs: 26  
 ISSN: 0167-0115 CODEN: REPPDY  
 PUI S 0167-0115(99)00076-2  
 CY Netherlands  
 DT Journal; General Review  
 FS 001 Anatomy, Anthropology, Embryology and Histology  
 002 Physiology  
 003 Endocrinology  
 008 Neurology and Neurosurgery  
 029 Clinical Biochemistry  
 LA English  
 SL English

L5 ANSWER 97 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 1999306715 EMBASE  
 TI Narcolepsy and the \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* 2 gene.  
 AU Aldrich M.S.; Reynoldst P.R.  
 CS M.S. Aldrich, Department of Neurology, University of Michigan Medical  
 Sch., University of Michigan Medical Ctr., Ann Arbor, MI 48109, United  
 States  
 SO Neuron, (1999) 23/4 (625-626).  
 ISSN: 0896-6273 CODEN: NERNET  
 CY United States  
 DT Journal; (Short survey)  
 FS 008 Neurology and Neurosurgery  
 022 Human Genetics  
 LA English

L5 ANSWER 98 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 1999071604 EMBASE  
 TI Interacting appetite-regulating pathways in the hypothalamic regulation of  
 body weight.  
 AU Kalra S.P.; Dube M.G.; Pu S.; Xu B.; Horvath T.L.; Kalra P.S.  
 CS Dr. P.S. Kalra, Department of Neuroscience, Univ. of Florida College of  
 Medicine, P.O. Box 100244, Gainesville, FL 32610-0244, United States.  
 SKALRA@ufbi.ufl.edu  
 SO Endocrine Reviews, (1999) 20/1 (68-100).  
 Refs: 412  
 ISSN: 0163-769X CODEN: ERVIDP  
 CY United States  
 DT Journal; General Review  
 FS 003 Endocrinology  
 029 Clinical Biochemistry  
 LA English  
 SL English

L5 ANSWER 99 OF 154 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
 RESERVED. on STN  
 AN 1998285938 EMBASE  
 TI \*\*\*Orexins\*\*\* and anorexins: Thoughts for food.  
 AU Meier C.A.  
 CS C.A. Meier, Div. d'Endocrinol. et Diabetologie, Clinique de Medecine II,  
 Hopital Cantonal Univ. de Geneve, CH-1211 Geneva, Switzerland  
 SO European Journal of Endocrinology, (1998) 139/2 (148-149).  
 Refs: 4  
 ISSN: 0804-4643 CODEN: EJOEEP  
 CY Norway  
 DT Journal; (Short survey)  
 FS 003 Endocrinology



006 Internal Medicine  
029 Clinical Biochemistry  
LA English

L5 ANSWER 100 OF 154 Elsevier BIOBASE COPYRIGHT 2004 Elsevier Science B.V.  
on STN  
AN 2000164552 ESBIOBASE  
TI Reciprocal relation of food intake and sympathetic activity: Experimental  
observations and clinical implications  
AU Bray G.A.  
CS G.A. Bray, Pennington Biomedical Research Ctr., 6400 Perkins Road, Baton  
Rouge, LA 70808, United States.  
SO International Journal of Obesity, ( \*\*\*2000\*\*\* ), 24/SUPPL. 2 (S8-S17),  
101 reference(s)  
CODEN: IJOBDP ISSN: 0307-0565  
DT Journal; Conference Article  
CY United Kingdom  
LA English  
SL English

L5 ANSWER 101 OF 154 FROSTI COPYRIGHT 2004 LFRA on STN  
AN 537492 FROSTI  
TI \*\*\*Orexins\*\*\* , feeding and the big picture.  
AU Arch J.  
SO British Journal of Nutrition, \*\*\*2000\*\*\* , (October), 84 (4), 401-403  
(24 ref.)  
Published by: CABI Publishing, CAB International. Address: Wallingford,  
Oxon OX10 8DE, UK. Telephone: +44 (1491) 832111. Fax: +44 (1491)  
829198. Email: publishing@cabi.org Web: http://nutrition.cabweb.org and  
www.nutsoc.org.uk  
ISSN: 0007-1145  
DT Journal  
LA English  
SL English

L5 ANSWER 102 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): SEG\_F202078S GenBank (R)  
GenBank ACC. NO. (GBN): AH009943  
GenBank VERSION (VER): AH009943.1 GI:11055228  
SEQUENCE LENGTH (SQL): 4610  
MOLECULE TYPE (CI): DNA; linear  
DIVISION CODE (CI): Contiguous sequences  
DATE (DATE): 6 Feb 2001  
DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
(HCRTR1) and \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
(HCRTR2) genes, complete cds.  
\*\*\*human\*\*\*  
SOURCE:  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo  
REFERENCE:  
1 (bases 1 to 4610)  
AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
TITLE (TI): A mutation in a case of early onset narcolepsy and a  
generalized absence of \*\*\*hypocretin\*\*\* peptides in  
\*\*\*human\*\*\* narcoleptic brains  
JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
OTHER SOURCE (OS): CA 133:348631  
REFERENCE:  
2 (bases 1 to 4610)  
AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
Department of Psychiatry, Stanford University Medical  
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
94305-5485, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	3452..3667	/organism="Homo sapiens" /db-xref="taxon:9606"



source	1076..1291	/note="amplify at 58 degrees, R2-ex4-F: 5'-AAGGTAAATATGCACTTTGAAGAA-3', R2-ex4-R: 5'-AAGCACAGACATAATATTTGGAAG-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex4-F: 5'-CTGTCTGTCATGGTGGCTGTATGG-3', R1-ex4-R: 5'-CTCTCTTTGGTTGCAGCCAAGATG-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex6-F: 5'-GAGTCAGACCATCCTCTACCAATA-3', R2-ex6-R: 5'-ACTCACATAGCACCTAAACTCCTC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex6-F: 5'-TGGGCAGTAGGAACTCTTGCACT-3', R1-ex6-R: 5'-CAGGTACATCCTCACCCACCATC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex2-F: 5'-GAAGGGGGTTGTGTGGGAAGAG-3', R1-ex2-R: 5'-ACACTTCAGGGGTCATGAGCCA-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex2-F: 5'-TGACAGTGTTCCTCACCAATACC-3', R2-ex2-R: 5'-TCCTTCAGTTTGTCAATGCCTTAG-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex5-F: 5'-TCTGGAAGCCTTCCTTACTGTG-3', R2-ex5-R: 5'-CTTAAAGGCTGTTGCGCTTACC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex5-F: 5'-TTTTATCCTTTTGCCCATCTCCAC-3', R1-ex5-R: 5'-GGAGGCTCAGAGAAGAGAAATGGC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex3-F: 5'-CGTCAGCCTCCTCACTCACCTACT-3', R1-ex3-R: 5'-TGGTAGGAGCCAGTCTAGGGTGTC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex-3-F: 5'-TTTTGGCAGCTTTGAATTTGCTTA-3', R2-ex3-R: 5'-TCAAGTTGGTTTTCATGCTCTTGC-3'" /organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex7-F: 5'-CTCATAGGCAGCTTGGCTGGAG-3', R1-ex7-R: 5'-CCAGAGTCACACAGGCAGAAACC-3'" /organism="Homo sapiens"
source	3989..4210	
source	1619..1840	
source	453..731	
source	2828..3107	
source	3668..3988	
source	1292..1618	
source	732..1075	
source	3108..3451	
source	1841..2191	
source	4211..4610	



```

/db-xref="taxon:9606"
/note="amplify at 58 degrees,
R2-ex7-F:
5'-CCCATCTTTGCAAAATATTACACC-3',
R2-ex7-R:
5'-CCTGAAATAAGCTCAATTGAAGGT-3"
source          1..452
/organism="Homo sapiens"
/db-xref="taxon:9606"
/note="amplify at 58 degrees,
R1-ex1-F:
5'-CCTCCACCAATTTTCATGACTGTGA-3',
R1-ex1-R:
5'-CAGAGCCACACCCATCCTAGTTCT-3'"
source          2192..2827
/organism="Homo sapiens"
/db-xref="taxon:9606"
/note="amplify at 58 degrees,
R2-ex1-F:
5'-CTTCAGCTTCAGCTCTCCCTCA-3',
R2-ex1-R:
5'-GAGCAGCGACCTCTTTGTTTGC-3'"
source          1..4610
/organism="Homo sapiens"
/db-xref="taxon:9606"

```

CONTIG (CONT):

```

join(AF202078.1:1..452,gap(),AF202079.1:1..279,gap(),
AF202080.1:1..344,gap(),AF202081.1:1..216,gap(),AF202082.1:1..327,
gap(),AF202083.1:1..222,gap(),AF202084.1:1..351,gap(),
AF202085.1:1..636,gap(),AF202086.1:1..280,gap(),AF202087.1:1..344,
gap(),AF202088.1:1..216,gap(),AF202089.1:1..321,gap(),
AF202090.1:1..222,gap(),AF202091.1:1..400)

```

L5 ANSWER 103 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

```

LOCUS (LOC):          LMFL6071      GenBank (R)
GenBank ACC. NO. (GBN): AL583933
GenBank VERSION (VER): AL583933.1  GI:13122223
CAS REGISTRY NO. (RN): 324731-47-7
SEQUENCE LENGTH (SQL): 34156
MOLECULE TYPE (CI):   DNA; linear
DIVISION CODE (CI):   Invertebrates
DATE (DATE):          22 Feb 2001
DEFINITION (DEF):     Leishmania major Friedlin chromosome 5 cosmid L6071,
                        PREFINAL.
SOURCE:
  ORGANISM (ORGN):     Leishmania major.
                        Leishmania major
                        Eukaryota; Euglenozoa; Kinetoplastida;
                        Trypanosomatidae; Leishmania
NUCLEIC ACID COUNT (NA): 6951 a 10087 c 10439 g 6175 t 504 others
COMMENT:

```

see <http://www.ebi.ac.uk/parasites/leish.html>

Notes:

Details of leishmania sequencing at the Sanger Centre are available on the World wide web.

see [http://www.sanger.ac.uk/Projects/L\\_major/](http://www.sanger.ac.uk/Projects/L_major/)

CDS are numbered using the following system eg L6071.01. L6071 (cosmid name), .01 (first CDS)

To make the cosmid library Leishmania major Friedlin DNA was partially digested with Sau3AI prior to cloning into BamHI site of the cosmid shuttle vector cLHYG (Ryan et al. 1993 Gene 131:145-150). The sequence of the packaged vector was determined by Peter Myler and Ken Stuart at Seattle Biomedical Research Institute, and is available as accession number U59231.

The more significant matches with motifs in the PROSITE database are also included but some of these may be fortuitous. The length in codons is given for each CDS.

Usually the highest scoring match found by fasta -o is given for CDS which show significant similarity to other CDS in the database.

Gene prediction is done using:

(1)

the FramePlot program of Bibb et al., Gene 30:157-166(1984) as implemented at <http://www.nih.go.jp/jun/cgi-bin/frameplot.pl>.

(2)

codon preference based on the codon usage table for Leishmania at <http://www.kazusa.or.jp/codon/>

(3)



the Hexamer program which was written by Richard Durbin as an integral part of the ACEDB-based analysis tools for the C.elegans Genome Sequencing Project. The program calculates the log-likelihood score for a given DNA segment based on the frequency of 6-mers, normalised for the base-pair composition of the genome. The program was trained using a fasta file of confirmed Leishmania major coding sequences (CDS), i.e. from ATG start codon to the stop codon.

CAUTION: We may not have predicted the correct initiation codon. Where possible we choose an initiation codon (atg) which is preceded by a stretch of pyrimidines or part of a Kozak sequence. If this cannot be identified we choose the most upstream initiation codon. Transmembrane domains were predicted as implemented at the TMHMM server: <http://www.cbs.dtu.dk/services/TMHMM-1.0/>

IMPORTANT: This sequence MAY NOT be the entire insert of the sequenced clone. It may be shorter because we only sequence overlapping sections once, or longer, because we arrange for a small overlap between neighbouring submissions. Cosmid L6071 is overlapped at the 5' end by L4370 (not sequenced), contains the 'right end' sequences for PACs P719 (AL161399) and P108 (AL160498). P719 links into L7758 (AL352980), while P108 links into L2267 (AL357593). Cosmid L6071 is overlapped in the middle by L6812.2 (to be sequenced).

REFERENCE: 1 (bases 1 to 34156)  
 AUTHOR (AU): Ivens,A.C.; Lewis,S.M.; Bagherzadeh,A.; Zhang,L.; Chan,H.M.; Smith,D.F.  
 TITLE (TI): A physical map of the Leishmania major Friedlin genome  
 JOURNAL (SO): Genome Res., 8 (2), 135-145 ( \*\*\*1998\*\*\* )  
 OTHER SOURCE (OS): CA 128:266833  
 REFERENCE: 2 (bases 1 to 34156)  
 AUTHOR (AU): Zimmermann,W.; Ivens,A.C.; Quail,M.; Rajandream,M.A.; Barrell,B.G.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (20-FEB-2001) European Leishmania major Friedlin genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, (E-mail: barrell@sanger.ac.uk) and Agowa GmbH, Glienickestrasse 185, D-12489, Berlin, Germany

#### FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..34156	/organism="Leishmania major" /strain="Friedlin" /db-xref="taxon:5664" /chromosome="5" /clone="cosmid L6071"
repeat-region	371..386	/note="poly-pyrimidine tract"
repeat-region	436..456	/note="poly-pyrimidine tract"
repeat-region	complement(569..604)	/note="poly-pyrimidine tract"
repeat-region	complement(578..595)	/note="(ctc)6"
repeat-region	complement(666..697)	/note="poly-pyrimidine tract"
repeat-region	734..751	/note="poly-pyrimidine tract"
repeat-region	complement(953..968)	/note="(atgt)4"
repeat-region	complement(969..1000)	/note="(acatatat)4"
repeat-region	complement(1095..1112)	/note="poly-pyrimidine tract"
repeat-region	complement(1143..1157)	/note="poly-pyrimidine tract"
repeat-region	complement(1303..1322)	/note="poly-pyrimidine tract"
gene	complement(1575..3299)	/gene="L6071.01"
CDS	complement(1575..3299)	/gene="L6071.01" /note="L6071.01, len = 573 aa, possible monocarboxylate transporter protein; weak (sub-threshold) Pfam match to entry PF01587, Monocarboxylate transporter; MCTs catalyse the proton linked transport of lactic acid, pyruvate and ketone bodies across the membrane; THIRTEEN predicted TM helices at aa 21-41 (NOT predicted using HMM to be a signal peptide), 66-88, 95-112, 127-149, 156-178, 188-205, 363-385, 389-411, 418-440, 444-462, 469-491, 501-523, 536-558; contains match to PROSITE



PS00426 Cereal  
 trypsin/alpha-amylase inhibitors  
 family signature; some similarity  
 to several transporters, e.g.  
 Q9VG39, CG12286 protein (571 aa,  
 Drosophila melanogaster, EMBL:  
 AE003696, AAF54851); Fasta scores:  
 E():1.8e-08, 27.1% identity in 188  
 aa"

/codon-start=1  
 /label=L6071.01  
 /product="possible monocarboxylate  
 transporter protein"  
 /protein-id="CAC32260.1"  
 /db-xref="GI:13122224"  
 /translation="MQIYEACKKADRAVTHRPAD  
 HWIGYLVAVSGALMQMMSYGIDNS  
 FSIFSNSMQNDPSLGYPSATTVSFGNSVSLGLSP  
 VFGILAGFLVDRVPPRVMMFTSTV  
 MLFAALWLSSSFAKSSAEVTASYSLASISSALM  
 LSPGAAATGSWFRRRLGLGQGINF  
 CGGGVGSAVVPAVLGSLVDVYGWRHTFRLMSAFC  
 AIGLVATILSCRRHPIEDDQDVDD  
 HARGNNSPAREPSPDDCTAHRSPSHEERNEMMRM  
 ITSEAGENAAASPTTRMIDSMRTE  
 AEKAANRNSGDTITKGGKPDAAASARAALASPDG  
 SDDMSMLLGRHQQQPQQLAQYGRK  
 VHGTEACTVADLIQDMHARRLTWGEMMRVFLSVR  
 FLTHFFMFAIYGWSFYGLIYVAVP  
 YVSSMGSAAGTVYAGVTPISTSKASTVFTFWGVFQ  
 IVGSILVGGVASFTDDALAYTMCA  
 TVGGLATSLLVFCRSYAAFAVCLSVVGFCTAGIF  
 AMMPALIAKDFHGPNLGFVMGCVF  
 VAGCLGGFSAPPIQAQLQTRYNGNYSYGCVFISC  
 CTTFPGLVLCYLLLPKQTRVGRV FTRVVRQA"  
 /gene="L6071.01"

misc-feature complement(1626..1691)

/note="predicted TM helix region,  
 aa 536-558"

misc-feature 1666..1969

/note="region of BLASTN similarity  
 to: AA756991 TENU0054 T.cruzi  
 epimastigote normalized cDNA  
 Library Trypanosoma cruzi cDNA  
 clone 1k14 3', bases 3..306, 64%  
 identity over 303 bases"

misc-feature complement(1731..1796)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 501-523"

misc-feature complement(1827..1892)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 469-491"

misc-feature complement(1884..1955)

/gene="L6071.01"  
 /note="PROSITE PS00426 Cereal  
 trypsin/alpha-amylase inhibitors  
 family signature"

misc-feature complement(1914..1967)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 444-462"

misc-feature complement(1980..2045)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 418-440"

misc-feature complement(2067..2132)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 389-411"

misc-feature complement(2145..2210)

/gene="L6071.01"  
 /note="predicted TM helix region,  
 aa 363-385"

misc-feature 2189..2407

/note="region of BLASTN similarity  
 to: AQ847425 LMAJFV1-lm39e07.x1  
 Leishmania major FV1 random  
 genomic library Leishmania major  
 genomic clone LMAJFV1-lm39e07 3'  
 similar to contains 3..462  
 V1-ch1-type-II.5 leishmania  
 repetitive element ;, bases  
 2..220, 98% identity over 218  
 bases region of BLASTN similarity"



		to: AQ850931 LMAJFV1-lm32d03.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm32d03 3', bases 1..385, 100% identity over 384 bases"
misc-feature	complement(2685..2735)	/gene="L6071.01" /note="predicted TM helix region, aa 188-205"
misc-feature	complement(2766..2831)	/gene="L6071.01" /note="predicted TM helix region, aa 156-178"
misc-feature	complement(2812..3185)	/gene="L6071.01" /note="region of BLASTN similarity to: AW330418 TENU5164 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 9119 5', bases 1..374, 67% identity over 373 bases region of BLASTN similarity to: AQ847139 LMAJFV1-lm32d03.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm32d03 5' similar to TR:Q08268 Q08268 CHROMOSOME XV READING FRAME ORF YOL119C. ;, bases 1..526, 98% identity over 525 bases"
misc-feature	complement(2853..2918)	/gene="L6071.01" /note="predicted TM helix region, aa 127-149"
misc-feature	complement(2964..3014)	/gene="L6071.01" /note="predicted TM helix region, aa 95-112"
misc-feature	complement(3036..3101)	/gene="L6071.01" /note="predicted TM helix region, aa 66-88"
misc-feature	complement(3177..3236)	/gene="L6071.01" /note="predicted TM helix region, aa 21-41"
repeat-region	complement(3309..3330)	/note="poly-pyrimidine tract"
repeat-region	complement(3601..3630)	/note="poly-pyrimidine tract"
repeat-region	complement(3757..3774)	/note="poly-pyrimidine tract"
repeat-region	complement(3893..3909)	/note="poly-pyrimidine tract"
misc-feature	4033..4247	/note="region of BLASTN similarity to: AQ848215 LMAJFV1-lm59c12.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm59c12 3', bases 1..215, 100% identity over 214 bases"
repeat-region	complement(4104..4121)	/note="(acc)6"
repeat-region	complement(4208..4222)	/note="poly-pyrimidine tract"
misc-feature	complement(4516..4821)	/note="region of BLASTN similarity to: AQ851980 LMAJFV1-lm59c12.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm59c12 5', bases 1..306, 99% identity over 305 bases"
repeat-region	5535..5561	/note="poly-pyrimidine tract"
repeat-region	complement(5535..5552)	/note="(ggggag)3"
repeat-region	5662..5681	/note="poly-pyrimidine tract"
repeat-region	complement(5686..5697)	/note="(atgt)3"
repeat-region	complement(5910..5932)	/note="poly-pyrimidine tract"
repeat-region	complement(6482..6496)	/note="poly-pyrimidine tract"
gene	complement(6651..8534)	/gene="L6071.02"
CDS	complement(6651..8534)	/gene="L6071.02" /note="L6071.02, len = 626 aa, GTP-binding protein; contains Pfam match to entry PF01926 MMR-HSR1, GTPase of unknown function; contains match to PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many GTP-binding proteins, e.g.



NGP1-HUMAN, autoantigen ngp-1 (731  
 aa, Homo sapiens, EMBL: L05425,  
 AAC37588); Fasta scores: E():0,  
 43.5% identity in 646 aa"  
 /codon-start=1  
 /label=L6071.02  
 /product="MMR-HSR1 GTP-binding  
 protein"  
 /protein-id="CAC32261.1"  
 /db-xref="GI:13122225"  
 /translation="MGKPGKKAGKGLLAPTNP  
 RTDPNKTSLRDQRTIKRLKMYKSK  
 IKRDEKGNIIKGSVLKASDRIEQQMARIAPDRRW  
 FGNTRTIGQEALQKFREEEMGTKEYK  
 DPYSVIIKQSKLPLSLLEPKNTDGSIRKEMEWD  
 KTFGDKANRKRVRNLNAVDMSTLAT  
 EANVKGDDYDCNKKEKDRDLMKGVHKDRDDKTRN  
 GILMTKGQSNRIWCELYKVIDSSD  
 VVLYVVDARDPMGTRSAFLEDFMRREKKYKHFVL  
 VLNKCIDLPLWATARWLQILSKDY  
 PTIAFHASVNHPPFGKGNVISLLRQFARLHNVTHR  
 GSKRTKTPISVGIVGYPNVGKSSL  
 INTLRRKSVCKVAPIGETKVWQYVALTRSIFLI  
 DCPGVVYDRESNNDIQAVLKGVR  
 VERLGNADKTDVVDTVLKIVQRDIVATYGVREW  
 RDVDFLEKLAKLRGKL VAGGEPD  
 VEAAARMLLYDWQRGRLPWFNAPPFESNKHHRDA  
 MEQPQEKHMKLIEHYSTFNVVDDT  
 INRGDEKQDEGGDGEETANNAADEDQLDSGSEA  
 EKDEEAVKPLKPSKTDRLSATKAD  
 TQLATVATYMRQEKEQKRAQRQQRKAARKGQE  
 DVEAFSADADRESDDALWAQFLAA AKV"  
 /note="region of BLASTN similarity  
 to: AL474947 TA177A02Q Trypanosoma  
 brucei TREU927 sheared genomic DNA  
 Trypanosoma brucei genomic clone  
 177a02 reverse, bases 236..576,  
 65% identity over 340 bases region  
 of BLASTN similarity to: AQ660089  
 Sheared DNA-15K3.TR sheared DNA  
 Trypanosoma brucei genomic clone  
 Sheared DNA-15K3, bases 139..535,  
 67% identity over 396 bases"  
 /gene="L6071.02"  
 /note="region of BLASTN similarity  
 to: AQ660115 Sheared DNA-10N20.TF  
 Sheared DNA Trypanosoma brucei  
 genomic clone Sheared DNA-10N20,  
 bases 1..233, 67% identity over  
 232 bases region of BLASTN  
 similarity to: AQ645078  
 RPCI93-DpnII-29J3.TJ RPCI93-DpnII  
 Trypanosoma brucei genomic clone  
 RPCI93-DpnII-29J3, bases 1..384,  
 67% identity over 383 bases region  
 of BLASTN similarity to: AQ638738  
 927P1-19F2.TP 927P1 Trypanosoma  
 brucei genomic clone 927P1-19F2,  
 bases 2..323, 70% identity over  
 321 bases region of BLASTN  
 similarity to: BF936844 EST459899  
 Schistosoma mansoni female, Phil  
 Loverde/Joe Merrick Schistosoma  
 mansoni cDNA clone SMFCC28 5' end,  
 bases 442..611, 67% identity over  
 169 bases region of BLASTN  
 similarity to: AI034991 TENG0051  
 T. cruzi epimastigote normalised  
 cDNA Library Trypanosoma cruzi  
 cDNA clone n33.r 5', bases 3..582,  
 70% identity over 579 bases"  
 /gene="L6071.02"  
 /note="Pfam match to entry PF01926  
 MMR-HSR1, GTPase of unknown  
 function, score 272.20, E-value  
 6.8e-78"

misc-feature 6993..7333

misc-feature complement(6993..7225)

misc-feature complement(7116..7919)



misc-feature	complement(7539..7562)	/gene="L6071.02" /note="PROSITE PS00017 ATP/GTP-binding site motif A (P-loop)"
misc-feature	complement(7619..7934)	/gene="L6071.02" /note="region of BLASTN similarity to: AI975898 EST270492 Schistosoma mansoni female, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMFAY31 5' end, bases 109..424, 60% identity over 315 bases region of BLASTN similarity to: BF936844 EST459899 Schistosoma mansoni female, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMFCC28 5' end, bases 109..424, 60% identity over 315 bases region of BLASTN similarity to: AQ646760 RPCI93-EcoRI-3H22.TJ RPCI93-EcoRI Trypanosoma brucei genomic clone RPCI93-EcoRI-3H22, bases 45..354, 76% identity over 309 bases region of BLASTN similarity to: AQ641764 RPCI93-EcoRI-6J23.TJ RPCI93-EcoRI Trypanosoma brucei genomic clone RPCI93-EcoRI-6J23, bases 69..710, 72% identity over 641 bases region of BLASTN similarity to: AQ647561 RPCI93-EcoRI-6I10.TJ RPCI93-EcoRI Trypanosoma brucei genomic clone RPCI93-EcoRI-6I10, bases 37..515, 70% identity over 478 bases region of BLASTN similarity to: AQ641264 RPCI93-EcoRI-5018.TJ RPCI93-EcoRI Trypanosoma brucei genomic clone RPCI93-EcoRI-5018, bases 40..492, 70% identity over 452 bases region of BLASTN similarity to: AQ642488 RPCI93-EcoRI-3A8.TP RPCI93-EcoRI Trypanosoma brucei genomic clone RPCI93-EcoRI-3A8, bases 75..449, 71% identity over 374 bases"
misc-feature	complement(7871..8478)	/gene="L6071.02" /note="region of BLASTN similarity to: AQ660086 Sheared DNA-15K3.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-15K3, bases 2..609, 65% identity over 607 bases"
misc-feature	7891..8389	/note="region of BLASTN similarity to: AL161067 Leishmania major Friedlin genomic clone cosmid L4370 t3Hyg similar to SW:NGP1-HUMAN Q13823 AUTOANTIGEN NGP-1. [0] -1.., N=182, Prob=1.9e-31, bases 14..512, 99% identity over 498 bases"
misc-feature	8057..8504	/note="region of BLASTN similarity to: AQ942470 Sheared DNA-45I5.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-45I5, bases 22..469, 68% identity over 447 bases"
repeat-region	9343..9358	/note="poly-pyrimidine tract"
gene	complement(9427..10017)	/gene="L6071.03"
CDS	complement(9427..10017)	/gene="L6071.03" /note="L6071.03, len = 195 aa, unknown; some similarity to Q9SL93, putative kinetochore (163 aa, Arabidopsis thaliana, EMBL: AC006053, AAD31370); Fasta scores: E():0.57, 22.6% identity in 164 aa" /codon-start=1 /label=L6071.03



```

/product="hypothetical protein
L6071.03"
/protein-id="CAC32262.1"
/db-xref="GI:13122226"
/translation="MADEGAIDIRLVKGPNGEF
KVDRDLIIIVHCDDGKYIEVSKNY
IKQCPFIEEAEGEIPFYGYPAAVLEHLIRWAVHY
GVDGHAASQLTRPCIYRDFSYYVT
DKWDNDDFFNQRLCSPLNQKHLLTMTAAEQFGMQ
GLLDFMCIGLGCKLRGKDDNGIIH
EVMGLDKEMEITSEDLAEVS RDYPWFDDAVKATT
KK"
misc-feature complement(9861..10122) /note="region of BLASTN similarity
to: AI034774 LmLv39p10/544D
Leishmania major promastigote full
length cDNA library from
stationary stage (day 10)
Leishmania major cDNA clone 544D
5', bases 1..262, 97% identity
over 261 bases region of BLASTN
similarity to: AI034917
LmLv39p10/799C Leishmania major
promastigote full length cDNA
library from stationary stage (day
10) Leishmania major cDNA clone
799C 5', bases 1..262, 99%
identity over 261 bases region of
BLASTN similarity to: AI034649
LmLv39p10/369C Leishmania major
promastigote full length cDNA
library from stationary stage (day
10) Leishmania major cDNA clone
369C 5', bases 1..262, 99%
identity over 261 bases region of
BLASTN similarity to: AI034853
LmLv39p10/700D Leishmania major
promastigote full length cDNA
library from stationary stage (day
10) Leishmania major cDNA clone
700D 5', bases 1..250, 99%
identity over 249 bases region of
BLASTN similarity to: T93356
lmEST0116 LmLV39cDNA Leishmania
major cDNA clone Lm069 5' END,
bases 1..250, 99% identity over
249 bases"
gene complement(10499..13051) /gene="L6071.04"
)
CDS complement(<10499..13051) /gene="L6071.04"
1)
/note="L6071.04, len > 850 aa,
unknown; some similarity at amino
terminus to Q9R0D0, smoothelin
large isoform 12 (921 aa, Mus
musculus, EMBL: AF132449,
AAF25578); Fasta scores:
E():0.041, 26.2% identity in 229
aa"
/codon-start=1
/label=L6071.04
/product="hypothetical protein
L6071.04"
/protein-id="CAC32263.1"
/db-xref="GI:13122227"
/translation="MSSTWLHALRAYAARTNATP
ASLAARCRLFDQLCAVQLRGLPSA
QLHPDALPVLREARWSLLREGTTADKAELLEHIV
RQYQAASEKAMYAAPTASCSDGI
RGSADAQRQQPGKTSNHTRSLQDRSPQHATRS GT
SGSLLSGVQLSEMSVLQQLLLEQV
QCLVEAKVSDIPLSARHYRYPMRSPLLATVSPEL
PLLLLEELTQQSTAVSSSSSSSSSS
AQSNIIDWEARVDCVGLVAAGHVQEALALCSDDG
STFRTVMHRVVPLRRDGRCAWAL
ADAAPLSRVLDDATAAAGGTASLHWLRGVLEAVD
MRHRAAVGARQVSDSANAERNHVF

```



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EWVDRRLRLIVPSSKVALAGAEGQQQSVSATALR
LIMDTYLSVCPASRWRDAVGAVLE
LAAATDEASAVAQAAAEGNCCADAVTMGRMSIL
KAAEQPWMVLLFFYGDSLALQVAS
SRSRNDSSPKQPDSDAPARWQVSDKSVQAKVEEC
VRAARDADRLTVATGTILNERDKR
HAAIYNHAMVALAATGHHTTEAMHFYRTLPIILLVN
CYTHWSVLQLFLQPTRDSRAVSAL
RSSENYNHCARALRHLIRMSTADSKAAHAHTQVN
GNNGSVHPATPIRCTRQGGVWES
MILWAALRRDTETVDLCATHAPAVSRYAHLIAL
SAAASRGDGSAAQAQVRHMCAAP
RTTLKELSLATAAMASFFPRWPAGTTAAELPVRA
ELFDEVARSMAPLVGRSQSRMDEM
LELLVGYSVSLRRRRRMLPTPQDEAAALDDILVK
ENILANTMDLARPRAGYASDVDR
HHSCDNGAADDGAWRTVVHVMTSVAERQGLSAA
RAAPALVSAGVPAEMAIDL"
misc-feature    11511..11979 /note="region of BLASTN similarity
to: AQ847561 LMAJFV1-lm40d09.x1
Leishmania major FV1 random
genomic library Leishmania major
genomic clone LMAJFV1-lm40d09 3',
bases 1..469, 99% identity over
468 bases"
repeat-region   complement(11917..11928 /note="(tgct)3"
)
repeat-region   complement(12402..12425 /note="(gtc)8"
)
misc-feature     complement(12792..13188 /note="region of BLASTN similarity
to: AQ851423 LMAJFV1-lm40d09.y1
Leishmania major FV1 random
genomic library Leishmania major
genomic clone LMAJFV1-lm40d09 5'
similar to contains Alu repetitive
element;contains element
V1-ch1-type-II.7 leishmania
repetitive element, bases 1..397,
100% identity over 396 bases"
repeat-region   complement(13081..13121 /note="poly-pyrimidine tract"
)
repeat-region   complement(13180..13195 /note="poly-pyrimidine tract"
)
gene             complement(13498..15009 /gene="L6071.05"
)
CDS              complement(13498..15009 /gene="L6071.05"
)

/note="L6071.05, len = 502 aa,
unknown; some similarity at amino
terminus to Q9KY68, putative
nlp/p60 family secreted protein
(398 aa, Streptomyces coelicolor,
EMBL: AL356832, CAB92659); Fasta
scores: E():2.5, 24.8% identity in
141 aa"
/codon-start=1
/label=L6071.05
/product="hypothetical protein
L6071.05"
/protein-id="CAC32264.1"
/db-xref="GI:13122228"
/translation="MAMYPRMACEVAGMTPDAAE
NAVFTLLPPSTKTVRATSMATALR
YRDFLLERQREESQRQGGAGHAASSPCGGTSSD
SSGDTLRADAVSFLQWALQYKLGG
PNAFAHRRQELREMAAMMTEGCGAVTAAPPAAGA
EAMRDGIAYDEDAVVAASFFTAAQ
PGGVYYEYIRVGVLVVLDGILFVHGGVNTSNAG
FVPSLEATSYAEQVTAGQWWLPEV
APQEVATTPTATSATGWLAALEFKAAAFSDWVN
GAALRGEALRAYVYPRFVAPHSIA
VGTVMNVDPHYIPLTVVAYLLQSGIHTVCGGHQ
PVGDTPAIIRQPGGFTIIDADNSY
CGRGNKFCTRFNRRGAAMVLELLFEHPDDHGGDEN
VAPHDAVAAPSLTVHGYRADGAPF
EFDAYS DWRVGRYVGDGWWVRLPPEATAATSSLS

```



		FSGSEAAHAGLYELRRTQDGRHE ETRWATAAEVDWLRLQAAASGKATVPGELAPRHT KEELAEVLAHRLKTKVKRT" /gene="L6071.05"
misc-feature	complement(13577..14073 )	/note="region of BLASTN similarity to: AQ853248 LMAJFV1-lm81a10.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm81a10 5' similar to TR:Q42702 Q42702 GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE PRECURSOR ;, bases 1..497, 99% identity over 496 bases"
repeat-region	complement(15224..15238 )	/note="(cac)5"
repeat-region	complement(15614..15637 )	/note="poly-pyrimidine tract"
repeat-region	complement(15802..15817 )	/note="poly-pyrimidine tract"
misc-feature	complement(15936..16303 )	/note="region of BLASTN similarity to: AQ850713 LMAJFV1-lm41h09.x1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-lm41h09 3', bases 1..368, 96% identity over 367 bases"
misc-feature	16087..16257	/note="region of BLASTN similarity to: AF008205 Leishmania major chromosome 1, complete sequence., bases 58478..58648, 83% identity over 170 bases"
repeat-region	17246..17261	/note="poly-pyrimidine tract"
misc-feature	complement(17631..17893 )	/note="region of BLASTN similarity to: AL161399 AL161399 Leishmania major Friedlin Leishmania major genomic clone PAC P719 right, bases 1..263, 98% identity over 262 bases"
repeat-region	17967..17982	/note="poly-pyrimidine tract"
repeat-region	complement(18162..18179 )	/note="poly-pyrimidine tract"
misc-feature	18227..18545	/note="region of BLASTN similarity to: AL455441 TA40D07Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 40d07 reverse, bases 144..462, 64% identity over 318 bases region of BLASTN similarity to: AL161165 AL161165 Leishmania major Friedlin Leishmania major genomic clone cosmid L6812.2 t3Hyga similar to AP000373 AP000373 Arabidopsis thaliana genomic DNA,..., N=245, Prob=3.1e-12, bases 1..422, 100% identity over 421 bases"
gene	complement(18229..18564 )	/gene="L6071.06"
CDS	complement(18229..18564 )	/gene="L6071.06"  /note="L6071.06, len = 110 aa, possibly cytoplasmic dynein light chain; good similarity to many, e.g. Q9Z336, tctex-1 (113 aa, Rattus norvegicus, EMBL: AB010119, BAA34532); Fasta scores: E():1.2e-12, 35.5% identity in 110 aa" /codon-start=1 /label=L6071.06 /product="possible cytoplasmic dynein light chain" /protein-id="CAC32265.1" /db-xref="GI:13122229" /translation="MASGDRITLVDDASVICEDV"



```

VNALFSHETRYQHSKIAGLVSAIS
DQVVQRLTQEAKLPRKYVVLVTILQKNGAGVQTI
SSCSWNPTSDACYVYKAENKAMHC
IITVYGVTV"
repeat-region complement(18630..18641 /note="(cca)4"
)
repeat-region complement(18661..18678 /note="(cggcac)3"
)
repeat-region complement(18679..18696 /note="(tggcac)3"
)
repeat-region complement(18862..18886 /note="poly-pyrimidine tract"
)
gene complement(19320..20297 /gene="L6071.07"
)
CDS complement(19320..20297 /gene="L6071.07"
)
/note="L6071.07, len = 324 aa,
CDC27/NUC2-related protein;
contains SIX Pfam matches to entry
PF00515 TPR, TPR Domain; contains
match to PROSITE PS00132 Zinc
carboxypeptidases, zinc-binding
region 1 signature; reasonable
similarity to many, e.g.
BIMA-EMENI, bima protein (806 aa,
Emericella nidulans, EMBL: X59269,
CAA41959); Fasta scores:
E():2e-25, 31.0% identity in 290
aa"
/codon-start=1
/label=L6071.07
/product="CDC27/NUC2-related
protein"
/protein-id="CAC32266.1"
/db-xref="GI:13122230"
/translation="MVRSSSSSSAPLWKNQGGGS
ATAGAVASTTSPWLLRQLALAHFH
NGDIQESADAFEQLLRTPAWELTNPALIFYSTAL
WHLKSESALGSLAQRLTDAEPLSA
TTLCVVANAYSLIKDPRDALVMLKRAVQVAPTLA
YAHALHGYELLGQDSKAEAEAEFK
AALAVDASLYIAYAGLGERFMREEQIDKARGYYK
EAVKLNPTPAIVNRFALTYHRQGK
SLADLKTALRLYTESLERHPNNTARRQRADVLL
RLDQPMQALEELKALLVQCPGEAV
VYVTLAECMVCLRRPHEALQHYQTAMHLDPRRES
YVQGCIDQLVAANML"
misc-feature complement(19374..19475 /gene="L6071.07"
)
/note="Pfam match to entry PF00515
TPR, TPR Domain, score 13.50,
E-value 1.6"
misc-feature 19537..20187 /note="region of BLASTN similarity
to: AQ655661 Sheared DNA-2J6.TR
Sheared DNA Trypanosoma brucei
genomic clone Sheared DNA-2J6,
bases 27..677, 54% identity over
650 bases"
misc-feature complement(19578..19670 /gene="L6071.07"
)
/note="Pfam match to entry PF00515
TPR, TPR Domain, score 2.20,
E-value 26"
misc-feature complement(19669..20187 /gene="L6071.07"
)
/note="region of BLASTN similarity
to: AQ658921 Sheared DNA-16B5.TR
Sheared DNA Trypanosoma brucei
genomic clone Sheared DNA-16B5,
bases 138..656, 55% identity over
518 bases"
misc-feature complement(19689..19790 /gene="L6071.07"
)
/note="Pfam match to entry PF00515
TPR, TPR Domain, score 22.10,
E-value 0.014"

```



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misc-feature    complement(19791..19892 /gene="L6071.07"
)
                /note="Pfam match to entry PF00515
                TPR, TPR Domain, score 1.60,
                E-value 31"
misc-feature    complement(19833..19901 /gene="L6071.07"
)
                /note="PROSITE PS00132 Zinc
                carboxypeptidases, zinc-binding
                region 1 signature"
misc-feature    complement(19893..19994 /gene="L6071.07"
)
                /note="Pfam match to entry PF00515
                TPR, TPR Domain, score 19.30,
                E-value 0.094"
misc-feature    complement(20103..20204 /gene="L6071.07"
)
                /note="Pfam match to entry PF00515
                TPR, TPR Domain, score 13.00,
                E-value 1.8"
repeat-region   complement(20271..20285 /note="poly-pyrimidine tract"
)
gene            complement(20905..22083 /gene="L6071.08"
)
CDS             complement(20905..22083 /gene="L6071.08"
)
                /note="L6071.08, len = 391 aa,
                unknown; some similarity to
                Q9UF25, hypothetical 22.4 Kd
                protein (222 aa, Homo sapiens,
                EMBL: AL133642, CAB63763); Fasta
                scores: E():0.082, 28.5% identity
                in 144 aa"
                /codon-start=1
                /label=L6071.08
                /product="hypothetical protein
                L6071.08"
                /protein-id="CAC32267.1"
                /db-xref="GI:13122231"
                /translation="MSATPPPPPPSSNASTGYP
                HTRASPGTYRGAGRGAYSRGPSYQ
                SSGSSPSSSPIYTSGPSRRGGGNTRVRVHTYGFV
                HADPAASLAAAPPASHTSAPRATP
                DVATPPLPSASSAASPPLSSISSDVLSSLNASVQ
                ESLSGYLYTDAIELAQRLFDLEAS
                YAHLLHLLAHCYTVSGATGTAYRLLQHYYPFLELH
                VTRPRTAGASTSAAGGAAGGVGSG
                VLPFDARRTWTASYGVHPSQHPFSSGMPSATAAV
                TFSASSNENNLTSDEFELGYETVD
                LQSQWDCQYLLGVCCYRTQHYEDGARVLSQLLYV
                CHQVTTTSSVLRRLRRLQQLRQQQQQ
                VTVRSDTSEEDDAGVAAAVRATERQLAGLCLRDG
                GAHFAGALLVGSVREASPAAPDRG "
repeat-region   complement(21082..21096 /note="(cag)5"
)
repeat-region   complement(22052..22072 /note="(gcc)7"
)
misc-feature    complement(22081..22191 /note="region of BLASTN similarity
)
                to: AQ846715 LMAJFV1-lm20b08.x1
                Leishmania major FV1 random
                genomic library Leishmania major
                genomic clone LMAJFV1-lm20b08 3',
                bases 1..111, 98% identity over
                110 bases"
repeat-region   complement(22223..22242 /note="poly-pyrimidine tract"
)
repeat-region   complement(22253..22267 /note="poly-pyrimidine tract"
)
repeat-region   complement(23003..23018 /note="poly-pyrimidine tract"
)
gene            complement(23178..24416 /gene="L6071.09"
)
CDS             complement(23178..>2441 /gene="L6071.09"
6)
                /note="L6071.09, len > 411 aa,
                possibly chromosome assembly

```



protein SMC2 homolog; see L6071.12 for N-terminal portion; predicted coiled-coil regions at aa 13-110, 210-220; contains Pfam match to entry PF02483 SMC-C, SMC family, C-terminal domain; contains match to PROSITE PS00211 ABC transporters family signature; good similarity to several, e.g. BAB11491, chromosome assembly protein homolog (1175 aa, Arabidopsis thaliana, EMBL: AB019235, BAB11491); Fasta scores: E():2e-30, 35.4% identity in 378 aa"  
/codon-start=1  
/label=L6071.09  
/product="chromosome segregation protein SMC2 homolog, C-terminal"  
/protein-id="CAC32268.1"  
/db-xref="GI:13122232"  
/translation="QQEMADQLAAAEAHVARLTA  
DEERGAAEFERLEADMEQQAADLS  
RKTQDTEEDMVQQSQKLKLAQVEEVTTQQLAAV  
QARSKQNEERRQRLEKDIDDAQEE  
LTRFAERKVTLDNLVKNGEVGLREQSRCLESRR  
HVHEAEQRHSWLLLEARATFNQPGG  
PYDFSDAARTAAILQELRDIEVRAAVMTSKLSQK  
SAILYEERRREYEELVKQRTALGE  
DKEAIQRCITEIESKKWGALDRMVGVSIFGKL  
FATCLPGATAQLLEERDAANHLSG  
LGVRVSFNGKPRELSLSEGGQSRLLALCLILAI  
LRVRPAPLYILDEVDAALDPSHTQ  
NIGRMLQLYFPHSQFLLVSLKDGFMNNANVLYHI  
RNTQGYSEVARIEHKPPPQPTSAD  
SDTRNVASGAENKDAVASFA"  
/gene="L6071.09"

misc-feature complement(23271..23858  
)

/note="Pfam match to entry PF02483 SMC-C, SMC family, C-terminal domain, score 88.10, E-value 1.8e-22"  
/gene="L6071.09"

misc-feature complement(23493..23537  
)

/note="PROSITE PS00211 ABC transporters family signature"  
/note="region of BLASTN similarity to: AL493037 TA342G06Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 342g06 reverse, bases 2..498, 58% identity over 496 bases"

misc-feature 23503..23999

misc-feature complement(24517..24697  
)

/note="region of BLASTN similarity to: AI034783 LmLv39p10/556D Leishmania major promastigote full length cDNA library from stationary stage (day 10) Leishmania major cDNA clone 556D 5', bases 1..181, 86% identity over 180 bases region of BLASTN similarity to: AI034933 LmLv39p10/815C Leishmania major promastigote full length cDNA library from stationary stage (day 10) Leishmania major cDNA clone 815C 5', bases 1..181, 94% identity over 180 bases"

repeat-region complement(24735..24768  
)

/note="poly-pyrimidine tract"

repeat-region complement(25025..25053  
)

/note="poly-pyrimidine tract"

repeat-region complement(25041..25052  
)

/note="(cct)4"

repeat-region complement(25404..25415  
)

/note="(agt)4"

repeat-region complement(25416..25435

/note="poly-pyrimidine tract"



```

repeat-region ) complement(25607..25626 /note="poly-pyrimidine tract"
gene ) complement(25835..26614 /gene="L6071.10"
CDS ) complement(25835..26614 /gene="L6071.10"
)
/note="L6071.10, len = 258 aa,
unknown; some similarity to
OREX-RAT, orexin precursor (130
aa, Rattus norvegicus, EMBL:
AF019565, AAC02933); Fasta scores:
E():1, 25.2% identity in 127 aa"
/codon-start=1
/label=L6071.10
/product="hypothetical protein
L6071.10"
/protein-id="CAC32269.1"
/db-xref="GI:13122233"
/translation="MPPAPAPPFSSVSQCLSALL
PPTAFSLLPLTHTHTHTHTRTCT
HIIFSEPHIVFYCVCPFTRCHRRRPLPSPLSLSL
PQHTTLSTAINKHEAEVVDWSMS
RLARALAKPFTVPVAMCTRHVAAMDEPLKRHIDA
YAARGEDITIAVWREYVDGQRALL
PYRWTKFRSEVAYLTSGQMAITDLTFADLLVFIR
FLTKCLFIFIVAVMVGRRSVFPSL
EPTSPFVEEIVKNWQPNRLHGVAGAEYMACDQAA
AAGYGHR"
repeat-region complement(26377..26411 /note="poly-pyrimidine tract"
repeat-region ) complement(26823..26841 /note="poly-pyrimidine tract"
repeat-region ) complement(27165..27179 /note="poly-pyrimidine tract"
repeat-region ) complement(27484..27505 /note="poly-pyrimidine tract"
repeat-region ) complement(27627..27641 /note="poly-pyrimidine tract"
repeat-region ) complement(28094..28105 /note="(caag)3"
repeat-region ) complement(28155..28166 /note="(gtat)3"
misc-feature 28343..28575 /note="region of BLASTN similarity
to: AQ849379 LMAJFV1-lm47b03.y1
Leishmania major FV1 random
genomic library Leishmania major
genomic clone LMAJFV1-lm47b03 5',
bases 160..392, 100% identity over
232 bases"
repeat-region 28443..28463 /note="poly-pyrimidine tract"
repeat-region 29010..29031 /note="poly-pyrimidine tract"
misc-feature complement(29105..29459 /note="region of BLASTN similarity
to: AQ902240 LMAJFV1-lm47b03.x1
Leishmania major FV1 random
genomic library Leishmania major
genomic clone LMAJFV1-lm47b03 3'
similar to contains element
V1-ch1-type-II.14 leishmania
repetitive element, bases 1..355,
100% identity over 354 bases
region of BLASTN similarity to:
AQ940065 Sheared DNA-19A7.TF
Sheared DNA Trypanosoma brucei
genomic clone Sheared DNA-19A7,
bases 1..284, 79% identity over
283 bases region of BLASTN
similarity to: AL472284 TA161B10P
Trypanosoma brucei TREU927 sheared
genomic DNA Trypanosoma brucei
genomic clone 161b10 forward,
bases 39..398, 78% identity over
359 bases region of BLASTN
similarity to: AL463943 TA116C11Q
Trypanosoma brucei TREU927 sheared
genomic DNA Trypanosoma brucei

```



repeat-region	29113..29129	genomic clone 116c11 reverse, bases 237..522, 78% identity over 285 bases"
gene	29147..30871	/note="poly-pyrimidine tract"
CDS	29147..30871	/gene="L6071.11"
		/gene="L6071.11"
		/note="L6071.11, len = 573 aa, ATPase alpha subunit; contains Pfam match to entry PF00006 ATP-synt-ab, ATP synthase alpha/beta family, Pfam match to entry PF00422 ATP-synt-A-c, ATP synthase Alpha chain, C terminal; contains match to PROSITE PS00152 ATP synthase alpha and beta subunits signature, PROSITE PS00070 Aldehyde dehydrogenases cysteine active site, PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many, e.g. AAG23339, ATPase alpha subunit (585 aa, Trypanosoma brucei brucei, EMBL: AY007705, AAG23339); Fasta scores: E():0, 88.6% identity in 587 aa"
		/codon-start=1
		/label=L6071.11
		/product="ATPase alpha subunit"
		/protein-id="CAC32270.1"
		/db-xref="GI:13122234"
		/translation="MRRFVAQYVAPAMGRLASTA AAGKSAAPGQKSFFKATEMIGYVH SIDGTIATLIPAPGNPGVAYNTIIMIQQVSPPTFA AGLVFNLEKDGRIGIILMDNITEV QSGQKVMATGKLLYIPVGAGVLGKVVNPLGHEVP VGLLTRSRALLESEQTLGKVDAGA PNIVSRSPVNYNLLTGKAVDTMPIGRGQRELI VGDRQTGKTSIAVSTIINQVRSNQ QILSKNAVISIYVSIGQRCSNVARIHRLRLSYGA LRYTTVMAATAAEPAGLQYLAPYS GVTMGEYFMNRGRHCLCVYDDLSKQAVAYRQISL LLRRPPGREAYPGDVFYLHSRLLE RAAMLSPGKGGGSVTALPIVETLSNDVTAYIVTN VISITDGGIYLDTKLFTGGQRPV NIGLSVSRVGSSAQNVAMKAVAGKLKGILAEYRK LAADSVGGSQVQTVPMIRGARFVA LFNQKNPSFFMNALVSLYACLNGLDDVKVNYAK LYEYLLVNKDLSVMYGTATNKFFY MYVQQLNYVIRFFTLNHPILNAEVEEMLKQHTHL FLQHYQSKMNAIKTEKEIKALKNL LYSCKRAV"
misc-feature	29234..29420	/gene="L6071.11"
		/note="region of BLASTN similarity to: AL472354 TA161B10Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 161b10 reverse, bases 327..513, 79% identity over 186 bases region of BLASTN similarity to: A0658777 sheared DNA-27D17.TF Sheared DNA Trypanosoma brucei genomic clone sheared DNA-27D17, bases 91..450, 78% identity over 359 bases region of BLASTN similarity to: AY007705 Trypanosoma brucei brucei ATPase alpha subunit mRNA, complete cds; nuclear gene for kinetoplast product., bases 124..483, 79% identity over 359 bases"
misc-feature	29291..30346	/gene="L6071.11"
		/note="Pfam match to entry PF00006 ATP-synt-ab, ATP synthase alpha/beta family, score 420.30, E-value 1.8e-122"
misc-feature	complement(29600..30196)	/note="region of BLASTN similarity to: A0943100 Sheared DNA-35K24.TR Sheared DNA Trypanosoma brucei



misc-feature	complement(29600..29826)	genomic clone Sheared DNA-35K24, bases 1..597, 79% identity over 596 bases" /note="region of BLASTN similarity to: AL463943 TA116C11Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 116c11 reverse, bases 10..236, 79% identity over 226 bases"
misc-feature	29664..30267	/gene="L6071.11" /note="region of BLASTN similarity to: AI976759 EST271353 Schistosoma mansoni male, Phil LoVerde/Joe Merrick Schistosoma mansoni cDNA clone SMMAA46 5' end similar to ATP synthase alpha subunit, bases 94..697, 57% identity over 603 bases region of BLASTN similarity to: AY007705 Trypanosoma brucei brucei ATPase alpha subunit mRNA, complete cds; nuclear gene for kinetoplast product., bases 619..1758, 80% identity over 1139 bases region of BLASTN similarity to: AA186203 T3871 MVAT4 bloodstream form of serodeme WRATat1.1 Trypanosoma brucei rhodesiense cDNA 5' similar to gi 45606 (X66103) ATPase alpha subunit [Propionigenium modestum], bases 1..297, 79% identity over 296 bases region of BLASTN similarity to: AQ950429 Sheared DNA-39I2.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-39I2, bases 1..410, 79% identity over 409 bases region of BLASTN similarity to: AZ050719 GSSTc11570 Trypanosoma cruzi random genomic library Trypanosoma cruzi genomic clone G38N18, bases 1..213, 83% identity over 212 bases"
misc-feature	complement(29665..30067)	/note="region of BLASTN similarity to: AL161137 AL161137 Leishmania major Friedlin genomic clone cosmid L6071.2 t3Hyga similar to SLATPSYNA Z22606 S.lividans i protein and ATP synthase..., N=824, Prob=3.3e-60; SW:ATPA-BOVIN P19482 ATP SYNTHASE ALPHA CHAIN LIVER..., N=424, Prob=1.3e-52, bases 1..403, 100% identity over 402 bases region of BLASTN similarity to: AQ950431 Sheared DNA-39I2.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-39I2, bases 2..483, 79% identity over 481 bases"
misc-feature	29732..29755	/gene="L6071.11" /note="PROSITE PS00017 ATP/GTP-binding site motif A (P-loop)"
misc-feature	29829..30350	/gene="L6071.11" /note="region of BLASTN similarity to: AQ653001 Sheared DNA-1M5.TF Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-1M5, bases 1..522, 78% identity over 521 bases region of BLASTN similarity to: AA556054 TENF0235 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 235 5' similar to ATP synthase, bases 10..418, 78% identity over 408 bases region of



BLASTN similarity to: N45888 T1405  
MVAT4 bloodstream form of serodeme  
WRATat1.1 Trypanosoma brucei  
rhodesiense cDNA 5' similar to  
Na<sup>+</sup>-transporting ATP synthase -  
alpha chain, bases 24..292, 77%  
identity over 268 bases region of  
BLASTN similarity to: AI067305  
EST208983 Schistosoma mansoni,  
Phil LoVerde/Joe Merrick  
Schistosoma mansoni cDNA clone  
SMNAS35 5' end similar to ATP  
synthase, alpha subunit, bases  
4..420, 59% identity over 416  
bases region of BLASTN similarity  
to: AI067846 EST209530 Schistosoma  
mansoni, Phil LoVerde/Joe Merrick  
Schistosoma mansoni cDNA clone  
SMNCF75 5' end similar to ATP  
synthase, alpha subunit, bases  
4..457, 59% identity over 453  
bases region of BLASTN similarity  
to: AI068328 EST210019 Schistosoma  
mansoni, Phil LoVerde/Joe Merrick  
Schistosoma mansoni cDNA clone  
SMNCT59 5' end similar to ATP  
synthase, alpha subunit, bases  
4..457, 59% identity over 453  
bases region of BLASTN similarity  
to: AI067947 EST209635 Schistosoma  
mansoni, Phil LoVerde/Joe Merrick  
Schistosoma mansoni cDNA clone  
SMNCH12 5' end similar to ATP  
synthase, alpha subunit, bases  
4..499, 57% identity over 495  
bases re  
gion of BLASTN similarity to:  
AI068269 EST209960 Schistosoma  
mansoni, Phil LoVerde/Joe Merrick  
Schistosoma mansoni cDNA clone  
SMNCQ92 5' end similar to ATP  
synthase, alpha subunit, bases  
10..505, 58% identity over 495  
bases region of BLASTN similarity  
to: AL160498 AL160498 Leishmania  
major Friedlin Leishmania major  
genomic clone PAC P108 right  
similar to MXPTATP D16176  
M.xanthus DNA for proton  
translocating..., N=1252,  
Prob=6.5e-96; SW:ATPA-DROME P35381  
ATP SYNTHASE ALPHA CHAIN,...,  
N=548, Prob=4.3e-69, bases 3..450,  
100% identity over 447 bases  
region of BLASTN similarity to:  
AZ215908 Sheared DNA-116C10.TF  
Sheared DNA Trypanosoma brucei  
genomic clone Sheared DNA-116C10,  
bases 2..633, 79% identity over  
631 bases"

misc-feature 29834..29869 /gene="L6071.11"  
/note="PROSITE PS00070 Aldehyde  
dehydrogenases cysteine active  
site"

misc-feature 30156..30491 /gene="L6071.11"  
/note="region of BLASTN similarity  
to: AZ050667 GSSTc11516  
Trypanosoma cruzi random genomic  
library Trypanosoma cruzi genomic  
clone G36G9, bases 1..336, 84%  
identity over 335 bases"

misc-feature complement(30200..30568  
) /note="region of BLASTN similarity  
to: AZ051030 GSSTc11882  
Trypanosoma cruzi random genomic  
library Trypanosoma cruzi genomic  
clone G54D16, bases 1..369, 84%



misc-feature	complement(30290..30870)	identity over 368 bases" /note="region of BLASTN similarity to: AQ658781 Sheared DNA-27D17.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-27D17, bases 91..671, 79% identity over 580 bases region of BLASTN similarity to: AZ218156 Sheared DNA-58H4.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-58H4, bases 164..576, 78% identity over 412 bases region of BLASTN similarity to: AA875724 TENU0195 T.cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 6e3 3', bases 197..477, 81% identity over 280 bases region of BLASTN similarity to: AI021883 TENU0477 T. cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 7e21 3', bases 190..424, 79% identity over 234 bases region of BLASTN similarity to: AQ911949 LMAJFV1-1n07g01.y1 Leishmania major FV1 random genomic library Leishmania major genomic clone LMAJFV1-1n07g01 5', bases 1..239, 99% identity over 238 bases"
misc-feature	30314..30343	/gene="L6071.11" /note="PROSITE PS00152 ATP synthase alpha and beta subunits signature"
misc-feature	30347..30433	/gene="L6071.11" /note="Pfam match to entry PF00422 ATP-synt-A-c, ATP synthase Alpha chain, C terminal, score 24.40, E-value 2.3e-07"
misc-feature	30373..30582	/gene="L6071.11" /note="region of BLASTN similarity to: AQ940066 Sheared DNA-19A7.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-19A7, bases 1..210, 78% identity over 209 bases"
misc-feature	30428..30748	/gene="L6071.11" /note="region of BLASTN similarity to: AI073316 TENU2987 T. cruzi epimastigote normalized cDNA Library Trypanosoma cruzi cDNA clone 28c8 5', bases 1..321, 80% identity over 320 bases region of BLASTN similarity to: AI035122 TENG0213 T. cruzi epimastigote normalised cDNA Library Trypanosoma cruzi cDNA clone n250.r 5', bases 1..367, 80% identity over 366 bases"
misc-feature	30837..31319	/note="region of BLASTN similarity to: AZ082002 L2005k.d-HygT7.1 Leishmania major Friedlin Cosmid Genomic Library Leishmania major genomic clone L2005k, bases 11..493, 98% identity over 482 bases"
repeat-region	31370..31381	/note="(agt)4"
repeat-region	31767..31784	/note="(acc)6"
misc-feature	31814..32217	/note="region of BLASTN similarity to: AL491879 TA320H10Q Trypanosoma brucei TREU927 sheared genomic DNA Trypanosoma brucei genomic clone 320h10 reverse, bases 133..536, 76% identity over 403 bases"
gene	31825..34155	/gene="L6071.12"
CDS	31825..>34155	/gene="L6071.12"



/note="L6071.12, len > 776 aa, possibly chromosome segregation protein SMC2 homolog; see L6071.09 for C-terminal portion; predicted extensive multiple coiled-coil regions at aa 180-480, 711-776, continued in L6071.09; contains Pfam match to entry PF02463 SMC-N, SMC domain N terminal domain; contains match to PROSITE PS01156 TonB-dependent receptor proteins signature 2, PROSITE PS00017 ATP/GTP-binding site motif A (P-loop); good similarity to many, e.g. SMC2-YEAST, chromosome segregation protein smc2 (1170 aa, Saccharomyces cerevisiae, EMBL: D44602, BAA08042); Fasta scores: E():0, 29.2% identity in 811 aa"  
/codon-start=1  
/label=L6071.12  
/product="chromosome segregation protein SMC2 homolog, N-terminal"  
/protein-id="CAC32271.1"  
/db-xref="GI:13122235"  
/translation="MRVKSIVIDGFKSYAHRKEL  
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VTIEFVNDDPASAPPGYSCEEYPL  
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SLNVDNPHFMILQGTVHKLIGMRS  
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YNTFMQMREKMEEKVRFVRVALDYHTHTQHAEE  
AAMTARKADVQNAKTQLQALPRQE  
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HSRLEGQLGNCTKSLKQLETQLKS  
LRKEQERQSSSQAAFAARQREHEQLLAQIKEGKE  
TCAKLLKGLKLLRSGVQAGASGVS  
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RVEAHQAEESSRVRHLEREYAKAT  
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KVE"

misc-feature 31825..32343

/gene="L6071.12"  
/note="Pfam match to entry PF02463 SMC-N, SMC domain N terminal domain, score 176.70, E-value 3.9e-49"

misc-feature 31918..31941

/gene="L6071.12"  
/note="PROSITE PS00017 ATP/GTP-binding site motif A (P-loop)"

misc-feature complement(31950..32566)  
)

/note="region of BLASTN similarity to: AZ215185 Sheared DNA-83G9.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-83G9, bases 2..618, 71% identity over 616 bases region of BLASTN similarity to: AQ649957 Sheared DNA-5H11.TR Sheared DNA Trypanosoma brucei genomic clone Sheared DNA-5H11, bases 80..689, 61% identity over 609 bases region of BLASTN similarity to: AQ653051 Sheared DNA-6M4.TR Sheared DNA Trypanosoma brucei genomic clone"



misc-feature 32122..32175  
repeat-region 33688..33702

Sheared DNA-6M4, bases 27..679,  
54% identity over 652 bases"  
/gene="L6071.12"  
/note="PROSITE PS01156  
TonB-dependent receptor proteins  
signature 2"  
/note="(cag)5"

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121	gcggtaaacc	acacgcgccc	cgcagcgagg	gaagggcatg	ggagagggcc	gagatgaggg
181	ggcgacaaga	caaacgagca	atttgcgctc	gtccgccgta	tcgctctcgc	ccacccccctc
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301	cacgccccct	gcatccccct	cttcgtccgt	accacattcc	tgctgaggct	tctgctggtg
361	cttccccctg	ctcccccttc	ccctccatct	ctttccgtcc	catatatata	tctatatata
421	tatatatgca	tcccatccct	ccctctttct	ttccctggat	caccctgcca	cgcagcacac
481	agcacagaga	ggtacggcgg	cgtccccccc	ccccgccccg	cccctcctct	gccaagtggg
541	ctgcgcgctt	tgcggaacaa	cgccatgcga	ggggggagag	gaggaggagg	aggaggggag
601	agaacgcacc	caaaaaacaa	aaaaaaagca	taagaaatcc	acacacactt	acacacagac
661	acaccgagag	agagagagag	agggagagag	agggagatcg	tggtgcattg	ctacactcgc
721	cctctccccc	ttgttctctc	tctctctccc	tatgcatatg	tgcgtagtgg	tggtgcggtg
781	gttcggtcaa	atttgcgacc	gccatgagga	caataaagcc	aacgtacaaa	caacaacaaa
841	tacatatata	tatatatata	tgtatatatg	tatatatata	tataccaaac	gaaaagggag
901	aaacgcaggt	ggatcatgaa	gcgataacga	tgtcataaac	gataatgcat	gcacatacat
961	acatacatat	atgatgatata	atgtatatat	gtatatatgt	atgtgcatgc	aggtatatac
1021	attatcattc	ttttgcgact	cgtgtcatgc	cttctccgtg	cgcacgcggc	tggcagtggg
1081	gcagagaagc	atacagagaa	gagaaggaga	ggcgctcggg	gtgggggtgc	aggagggggg
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1381	accaccatgg	cactcggcctg	cggcagcgag	agctgcctca	cgcacgccag	cgagagaggg
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31861 tcgtatgccc accgcaagga gctggcggac ctcagcccgc actttaacgc catcaccggt
31921 ctcaacggca gtgtaagtc gaacatcttc gacgccatct gttttgtcat ggggtatcacc
31981 aacttgaagc gcgtgcccgc cgaggaccgc cgggagctga ttttccgcgc cggcacgacc
32041 ggcgtgcacg cggcgcgggt gacgatcgaa tttgtgaacg atgacccgc ctcgccccgc
32101 ccgggtcaca gctgcgaaga gtatccgctc atcaccattg gccgtcagat caagctcggg
32161 gggaggcagc agttcttctt caacaacacc gtgtcgtctc agagcaaggt gaagcgcttc
32221 ttcgagagca tcagcttgaa cgctcgacaac cccacttca tgatcctgca ggggactgtg
32281 cacaagctga tcggcatgag ctcgaggac atcctgtccc tcatcgagga ggcggtcggc
32341 acgaaggcct ttgatcatcg ccgcccgcac gccgagacac ttatccgcaa caaggagagg
32401 aagatggagg aaatcgacac gaacatcgag gcacagatcc gaccgctgct ggagacgatg
32461 cgggcccacc aggaggagta caacaccttc atgcagatgc gagagaagat ggaggaaaag
32521 gtgcgcttcc gtgtcgcgct ggactaccac acgcatcgca cgcagcacgc agaggcggag
32581 gcggcgatga cggcacgcaa ggcgcatggt cagaacgcca agacgcagct gcaggcactg
32641 ccgcccagg aagaggaggc agcgcgtcga ctcttgagc tgcaggactc cctcagcgct
32701 ccgagcgagg cagccatcgc gctgcacgag gaggaagatg aactgaagaa ggcgcacagc
32761 cgccttgaag gtcagctggg caactgcacc aagtcgctga agcaactcga gacacagctc
32821 aagagtctgc ggaaggagca ggagaggcag agcagcagcc aggcagcctt cgcggcacgg
32881 cagcgggagc acgagcgact gctagcgcag attaaggagg gtaaaagagc atgcgcgaag
32941 ctgaagaagg gtctcaagct cctccgctac ggtgtacagg ccggtgcctc ggtgtctcg
33001 ctgcggagg agaggcagca ggtggacctg cagctcatcg agcagcagtc gcgcgtgccc
33061 cgcgccacag accggcttga ggaactggtg aagcagcagc ggcgggtcga ggcgcaccag
33121 gccgaggaga gcagccgcgt gcgccacctc gagcgcgagt acgcaaagc caccgcgtct
33181 ctcgagaagg caaaggcggg gtacacaccg ttggcgctga agcagcagcg gaaggaggcc
33241 ctcgaggcgg agatctcgtc gctgaaacgt gactgcccag ccgagtacga gaacttccag
33301 cggcagggtga gcacggcgac cgcgcgcaac tacgacctcg actacaaccg ctacgcctgc
33361 ccacccgaca cggaggacaa ggtgcttggg cgggtcggcc aactcatcac tccgaccgat
33421 ccacagcacg cgctggggct catggttggc gcccagaacc agctgctacg cgtcgtcgtc
33481 acggacgatc gcgtcgccga agcgtatcgc cgcagtgggc tacggcagcg caccgcgttc
33541 ttcgccctgg acaagctgca gcgtcagcca acgcacttct ttatcgatgg cgcgaagctg
33601 caggcggcgc ggctcatggc cgagcagcag ggtggctggg tgaccgcgc acgggacttg
33661 gtgaggggtg agggagcctc atccccacag cagcagcagc agctcaacgc tcttgacagc
33721 ttcgtgtttg gcaacttctc tgtgtgctcc agcttgccgc tcgcgcagga gctggcctac
33781 gacgcgtcca tcaaggcgaa ggccgtcaca gtcgagggcg aggtggccga gccgaacggc
33841 ttgatgacgg gcgggtcgac gcggcagcta cgcgacgttt ttgcccacct caagacatac
33901 accgctcaga aagagccgct caaggcgtg cagcaacgca cgcgcgcgct ggaagtcgag
33961 tacgccgccc tgccgcagac gctccggcag caccagcagc acatccaagt atacaagaca
34021 gcagaggagg cggcggagct atcgaagcag cgtacatcg tcgcccgtaa cagtgcgcag
34081 agtggtgcgg ccgagcaggc ggagcagatc gagcgcgagc agaccgcgct cgccgaggcg
34141 cgcgagaagg tggagg

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L5 ANSWER 104 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

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LOCUS (LOC): F202078S14 GenBank (R)
GenBank ACC. NO. (GBN): AF202091
GenBank VERSION (VER): AF202091.1 GI:11055242
CAS REGISTRY NO. (RN): 300759-63-1
SEQUENCE LENGTH (SQL): 400
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Primates
DATE (DATE): 6 Feb 2001
DEFINITION (DEF): Homo sapiens ***hypocretin*** ***receptor*** -2
(HCRTR2) gene, exon 7 and complete cds.
SEGMENT: 14 of 14
SOURCE: ***human***
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 118 a 83 c 75 g 124 t
REFERENCE: 1 (bases 1 to 400)
AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;
Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;
Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;
Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;
Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.
TITLE (TI): A mutation in a case of early onset narcolepsy and a
generalized absence of ***hypocretin*** peptides in
***human*** narcoleptic brains

```



JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 400)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..400	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex7-F: 5'-CCCATCTTTGCAAAATATTACACC-3', R2-ex7-R: 5'-CCTGAAATAAGCTCAATTGAAGGT-3"
mRNA	join(AF202085.1:51..587, AF202086.1:52..230, AF202087.1:51..294, AF202088.1:51..166, AF202089.1:51..271, AF202090.1:51..172, 51..400)	/gene="HCRTR2"
gene	order(AF202085.1:51..63, AF202086.1:1..280, AF202087.1:1..344, AF202088.1:1..216, AF202089.1:1..321, AF202090.1:1..222, 1..400)	/product="hypocretin receptor-2" /gene="HCRTR2"
CDS	join(AF202085.1:365..58, AF202086.1:52..230, AF202087.1:51..294, AF202088.1:51..166, AF202089.1:51..271, AF202090.1:51..172, 51..280)	/gene="HCRTR2"  /note="orexin receptor-2" /codon-start=1 /product="hypocretin receptor-2" /protein-id="AAG28021.1" /db-xref="GI:11055244" /translation="MSGTKLEDSPPCRNWSSASE LNETQEPFLNPTDYDDEEFLRYLW REYLHPKEYEWLIAGYIIVFVVALIGNVLVCVA VWKNHHMRTVTNYFIVNLSLADVL VTITCLPATLVVDITETWFFGQSLCKVIPYLQTV SVSVSVLTLSIALDRWYAICHPL MFKSTAKRARNISIVIIWIVSCIIMIPQAIVMECS TVFPGANKTTLFTVCDERWGGEI YPKMYHICFFLVTYMAPLCLMVLAYLQIFRKLWC RQIPGTSSVVQRKWKPLQPVSQPR GPGQPTKSRMSAVAAEIKQIRARRKTARMLMVVL LVFAICYLPISILNVLKRVFGMFA HTEDRETVYAWFTFSHWLVYANSAANPIIYNFLS GKFREEFKAAFSCCLGVHHRQED RLTRGRSTESRKSLLTQISNFDNISKLSEQVVL TSISTLPAANGAGPLQNW"
exon	51..400	/gene="HCRTR2"
3'UTR	281..400	/number=7 /gene="HCRTR2"

SEQUENCE (SEQ):

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1 tgaagcattt atgtataatt ctttttcctt tcattctctc tgtttgccag gaaaatttcg
61 agaggaattt aaagctgcgt tttcttgctg ttgccttgga gttcaccatc gccaggagga
121 tcggctcacc aggggacgaa ctacacagag gagccggaag tccttgacca ctcaaatcag
181 caactttgat aacatatcaa aactttctga gcaagttgtg ctactagca taagcacact
241 cccagcagcc aatggagcag gaccacttca aaactggtag aatatttatt catatgacaa
301 ggatacctga gtaaaactat cttttttaaa atcactggga acagaaattt tattatccta
361 tgatgtgaag ctaaaattac ttgtgatctc tttttttttt
  
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LOCUS (LOC): F202078S13 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202090  
 GenBank VERSION (VER): AF202090.1 GI:11055241  
 CAS REGISTRY NO. (RN): 300759-62-0  
 SEQUENCE LENGTH (SQL): 222  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
 (HCRTR2) gene, exon 6.  
 SEGMENT: 13 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 57 a 39 c 42 g 84 t  
 REFERENCE: 1 (bases 1 to 222)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 222)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..222	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex6-F: 5'-GAGTCAGACCATCCTCTACCAATA-3', R2-ex6-R: 5'-ACTCACATAGCACCTAAACTCCTC-3'"
exon	51..172	/gene="HCRTR2" /number=6

## SEQUENCE (SEQ):

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1 ttgaatttaa ttatttaaaa gacacttttc tgttgtttct tttcctgcag agtattttggg
61 atgtttgccc atactgaaga cagagagact gtgtatgcct gggttacctt ttcacactgg
121 ctgttatatg ccaatagtgc tgcgaatcca attatttata attttctcag tggtaggttt
181 tcaactgttc ttccataagc cacaattgta accaaggatg ag

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LOCUS (LOC): F202078S12 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202089  
 GenBank VERSION (VER): AF202089.1 GI:11055240  
 CAS REGISTRY NO. (RN): 300759-61-9  
 SEQUENCE LENGTH (SQL): 321  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
 (HCRTR2) gene, exon 5.  
 SEGMENT: 12 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 88 a 71 c 73 g 89 t



REFERENCE: 1 (bases 1 to 321)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.; Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a generalized absence of \*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 321)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA 94305-5485, USA

FEATURES (FEAT):  

Feature Key	Location	Qualifier
source	1..321	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex5-F: 5'-TCTGGAAGCCTTTCCTTACTGTG-3', R2-ex5-R: 5'-CTTAAAGGCTGTTCGCCTTACC-3'"
exon	51..271	/gene="HCRTR2" /number=5

SEQUENCE (SEQ):  
 1 gaactttcct aagtcaaatt gcaataaggg tctgtctctt ctcttttcag atccctggaa  
 61 catcatctgt agttcagaga aaatggaagc ccctgcagcc tgtttcacag cctcgagggc  
 121 caggacagcc aacgaagtcc cggatgagcg ctgtggcggc tgaaataaag cagatccgag  
 181 ccagaaggaa aacagcccgg atgttgatgg ttgtgctttt ggtatttgca atttgctatc  
 241 taccaattag catctcaat gtgctaaaga ggtaaaactt atctgttatt tgaaaatgaa  
 301 atagcctgcc ttttcttgat t

L5 ANSWER 107 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S11 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202088  
 GenBank VERSION (VER): AF202088.1 GI:11055239  
 CAS REGISTRY NO. (RN): 300759-60-8  
 SEQUENCE LENGTH (SQL): 216  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2 (HCRTR2) gene, exon 4.  
 SEGMENT: 11 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 53 a 43 c 39 g 81 t  
 REFERENCE: 1 (bases 1 to 216)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.; Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a generalized absence of \*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 216)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA



## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..216	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex4-F: 5'-AAGGTAAATATGCACTTTGAAGAA-3', R2-ex4-R: 5'-AAGCACAGACATAATATTTGGAAG-3'"
exon	51..166	/gene="HCRTR2" /number=4

## SEQUENCE (SEQ):

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1 aagtccatca attgtaacgt aagggtttgt tgttttgact ttcatacctag gtgaaattta
61 tcccaagatg taccacatct gtttctttct ggtgacatac atggcaccac tgtgtctcat
121 ggtgtttggct tatctgcaaa tatttcgcaa actctgggtg cgacaggtat atagtttcaa
181 atattttgcg tgcattattc ctccacacat aatttg

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5 ANSWER 108 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S10 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202087  
 GenBank VERSION (VER): AF202087.1 GI:11055238  
 CAS REGISTRY NO. (RN): 300759-59-5  
 SEQUENCE LENGTH (SQL): 344  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
 (HCRTR2) gene, exon 3.  
 SEGMENT: 10 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 74 a 85 c 76 g 109 t  
 REFERENCE: 1 (bases 1 to 344)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 344)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..344	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex-3-F: 5'-TTTGGCAGCTTTGAATTTGCTTA-3', R2-ex3-R: 5'-TCAAGTTGGTTTTTCATGCTCTTGC-3'"
exon	51..294	/gene="HCRTR2" /number=3

## SEQUENCE (SEQ):

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1 tcttttaaca gctggtgctt ctctattact atgatctttc ttttctctag accgtgtcgg
61 tgtctgtgtc tgtcctcaca ctgagctgta tcgccttgga tcggtggtat gcaatctgtc
121 accctttgat gtttaagagc acagcaaagc gggcccgtaa cagcattgtc atcatctgga

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181 ttgtctcctg cattataatg attcctcagg ccacgtcat ggagtgcagc accgtgttcc  
 241 caggcttagc caataaaacc accctcttta cgggtgtgta tgagcgctgg ggtggtaagt  
 301 accttatggc ccatcaactg acatttatat tacagcagca aatt

L5 ANSWER 109 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S09 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202086  
 GenBank VERSION (VER): AF202086.1 GI:11055237  
 CAS REGISTRY NO. (RN): 300759-58-4  
 SEQUENCE LENGTH (SQL): 280  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
 (HCRTR2) gene, exon 2.  
 SEGMENT: 9 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 67 a 61 c 53 g 99 t  
 REFERENCE: 1 (bases 1 to 280)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*\*2000\*\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 280)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

Feature Key	Location	Qualifier
source	1..280	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex2-F: 5'-TGACAGTGTTCCTCACCAATACC-3', R2-ex2-R: 5'-TCCTTCAGTTTGTCAATGCCTTAG-3'"
exon	52..230	/gene="HCRTR2" /number=2

SEQUENCE (SEQ):  
 1 caatacctat tttctttgtt gagtgactat tcctttttct tttcaaatta gtttgtgtg  
 61 cagtgtggaa gaaccaccac atgaggacgg taaccaacta cttcatagtc aatctttctc  
 121 tggctgatgt gctcgtgacc atcacctgcc ttccagccac actggtcgtg gatatcactg  
 181 agacctggtt ttttggacag tccctttgca aagtgattcc ttatctacag gtaattgttt  
 241 ttaatgcttt tttgaagcta ctaaaagaa tgttcagcca

L5 ANSWER 110 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S08 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202085  
 GenBank VERSION (VER): AF202085.1 GI:11055236  
 CAS REGISTRY NO. (RN): 300759-57-3  
 SEQUENCE LENGTH (SQL): 636  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -2  
 (HCRTR2) gene, exon 1.  
 SEGMENT: 8 of 14  
 SOURCE: \*\*\*human\*\*\*



ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 125 a 191 c 179 g 141 t

REFERENCE: 1 (bases 1 to 636)

AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigar,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.

TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains

JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )

OTHER SOURCE (OS): CA 133:348631

REFERENCE: 2 (bases 1 to 636)

AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.

TITLE (TI): Direct Submission

JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..636	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R2-ex1-F: 5'-CTTCAGCTTCAGCTCTCCCTCA-3', R2-ex1-R: 5'-GAGCAGCGACCTCTTTGTTTGC-3'"
5'UTR	51..364	/gene="HCRTR2"
exon	51..587	/gene="HCRTR2" /number=1

# SEQUENCE (SEQ):

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1 tcagcgaggg aggaggctgt gggctgcgga ctgagtgtg gaatgaggag taattgagct
61 tcagctgagc cggacgtagc tttctcctcc tgggtgcatt gctgcagcct ccagtgccgg
121 gtccctagtt cctcagctgc ctatcttccc ggtgcaacat cgctgtgtaa gacagcaaag
181 ccaccgcaga agttgcccgg cagaagactc cggaggcatt ggctcagtaa cttttcacgt
241 cattttctgc tcgggagccc ctctagcct ctccgcgcag cttttccac cgcaaatac
301 cagtgtcat ggggcaggcg gagaggagct tgcaagcatt agcgggaacc gagttgagcc
361 cgtgatgtcc ggcaccaaatt tggaggactc ccccccttgt cgcaactggg catctgcttc
421 ggagctgaat gaaactcaag agcccttttt aaacccacc gactatgacg acgaggaatt
481 cctgcggtac ctgtggaggg aatacctgca cccgaaagaa tatgagtggg tcctgatcgc
541 cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctgggtg agtctcctcc
601 cgggcagccc tcctaggggc tatcaccctt tctccg
  
```

L5 ANSWER 111 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S07 GenBank (R)

GenBank ACC. NO. (GBN): AF202084

GenBank VERSION (VER): AF202084.1 GI:11055235

CAS REGISTRY NO. (RN): 300759-56-2

SEQUENCE LENGTH (SQL): 351

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Primates

DATE (DATE): 6 Feb 2001

DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
 (HCRTR1) gene, exon 7 and complete cds.

SEGMENT: 7 of 14

SOURCE: \*\*\*human\*\*\*

ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 51 a 116 c 95 g 89 t

REFERENCE: 1 (bases 1 to 351)

AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigar,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.



TITLE (TI): A mutation in a case of early onset narcolepsy and a generalized absence of \*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains

JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )

OTHER SOURCE (OS): CA 133:348631

REFERENCE: 2 (bases 1 to 351)

AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.

TITLE (TI): Direct Submission

JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA 94305-5485, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..351	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex7-F: 5'-CTCATAGGCAGCTTGGCTGGAG-3', R1-ex7-R: 5'-CCAGAGTCACACAGGCAGAAACC-3'"
mRNA	join(AF202078.1:51..402,AF202079.1:51..229,AF202080.1:51..294,AF202081.1:51..166,AF202082.1:51..277,AF202083.1:51..172,51..351)	/gene="HCRTR1"
gene	order(AF202078.1:51..45,AF202079.1:1..279,AF202080.1:1..344,AF202081.1:1..216,AF202082.1:1..327,AF202083.1:1..222,1..351)	/product="hypocretin receptor-1" /gene="HCRTR1"
CDS	join(AF202078.1:204..40,AF202079.1:51..229,AF202080.1:51..294,AF202081.1:51..166,AF202082.1:51..277,AF202083.1:51..172,51..241)	/gene="HCRTR1"  /note="orexin receptor-1" /codon-start=1 /product="hypocretin receptor-1" /protein-id="AAG28020.1" /db-xref="GI:11055243" /translation="MEPSATPGAQMGVPPGSREP SPVPPDYEDEFLRYLWRDYLYPKQ YEWVLIAAYVAVFVVALVGNTLVCLAVWRNHMR TVTNYFIVNLSLADVLVTAICLPA SLLVDITESWLFHALCKVIPYLQAVSVSAVLT LSFIALDRWYAICHPLLFKSTARR ARGSILGIWAVSLAIMVPQAAVMECSSVLPELAN RTRLFSVCDERWADDLYPKIYHSC FFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTT ALVRNWKRPDQLGDLEQGLSGEP QPRARAFLAEVKQMRARRKTAKMLMVLLVFALC YLPISVLNVLKRVFGMFRQASDRE AVYACFTFSHWLVYANSAANPIIYNFLSGKFREQ FKAAFSCCLPGLGPCGSLKAPSPR SSASHKSLSLQSRCSISKISEHVVLTSVTTVLP"
exon	51..351	/gene="HCRTR1"
3'UTR	242..351	/number=7 /gene="HCRTR1"

# SEQUENCE (SEQ):

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1  tcctgctgca tctgtctcct tatggctgtg tcttttgtct cccaaccaag gcaaattccg
61  ggagcagttt aaggctgcct tctcctgctg cctgcctggc ctgggtccct gcggctctct
121  gaaggccctt agtccccgct cctctgccag ccacaagtcc ttgtccttgc agagccgatg
181  ctccatctcc aaaatctctg agcatgtggt gctcaccagc gtcaccacag tgctgccctg
241  agcgagggtg gccctggagg ctccggctcg ggggatctgc ccctaccctt catggaaaga
301  cagctggatg tggtgaaagg ctgtggcttc agtcctgggt ttctgcctgt g

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LOCUS (LOC): F202078S06 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202083  
 GenBank VERSION (VER): AF202083.1 GI:11055234  
 CAS REGISTRY NO. (RN): 300759-55-1  
 SEQUENCE LENGTH (SQL): 222  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
 (HCRTR1) gene, exon 6.  
 SEGMENT: 6 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 45 a 75 c 55 g 47 t  
 REFERENCE: 1 (bases 1 to 222)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 222)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..222	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex6-F: 5'-TGGGCAGTAGGAACTCTTGCACT-3', R1-ex6-R: 5'-CAGGTACATCCTCACCACCATC-3'"
exon	51..172	/gene="HCRTR1" /number=6

## SEQUENCE (SEQ):

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1 catgcatacg cagctacccc atttctgacg ctctccacc ctgggcctag ggtgttcggg
61 atgttccgcc aagccagtga ccgcgaagct gtctacgcct gcttcacctt ctccactgg
121 ctggtgtacg ccaacagcgc tgccaacccc atcatctaca acttcctcag tgggtgagcag
181 gctgggggatg caaatgact gaggggtggcc aacagtccac at

```

LOCUS (LOC): F202078S05 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202082  
 GenBank VERSION (VER): AF202082.1 GI:11055233  
 CAS REGISTRY NO. (RN): 300759-54-0  
 SEQUENCE LENGTH (SQL): 327  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
 (HCRTR1) gene, exon 5.  
 SEGMENT: 5 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo



NUCLEIC ACID COUNT (NA): 61 a 93 c 111 g 62 t  
REFERENCE: 1 (bases 1 to 327)  
AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.; Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
TITLE (TI): A mutation in a case of early onset narcolepsy and a generalized absence of \*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains  
JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
OTHER SOURCE (OS): CA 133:348631  
REFERENCE: 2 (bases 1 to 327)  
AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA 94305-5485, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..327	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex5-F: 5'-TTTTATCCTTTTGCCCATCTCCAC-3', R1-ex5-R: 5'-GGAGGCTCAGAGAAGAGAAATGGC-3'" /gene="HCRTR1" /number=5
exon	51..277	

SEQUENCE (SEQ):  
1 cctccaagg tgctgtaccc accactgctg tctctatgtg tgctggacag atccccggca  
61 ccacctcagc actggtgcgg aactggaagc gccctcaga ccagctggg gacctggagc  
121 agggcctgag tggagagccc cagccccggg cccgcgcctt cctggctgaa gtgaagcaga  
181 tgcgtgcacg gaggaagaca cccaaatgac tgatggtggt gctgctggtc ttcgccctct  
241 gctacctgcc catcagcgtc ctcaatgtcc ttaagagggt agagcacggg gtatggttgg  
301 ggtggggaga agtttgaggt tggggaa

L5 ANSWER 114 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S04 GenBank (R)  
GenBank ACC. NO. (GBN): AF202081  
GenBank VERSION (VER): AF202081.1 GI:11055232  
CAS REGISTRY NO. (RN): 300759-53-9  
SEQUENCE LENGTH (SQL): 216  
MOLECULE TYPE (CI): DNA; linear  
DIVISION CODE (CI): Primates  
DATE (DATE): 6 Feb 2001  
DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1 (HCRTR1) gene, exon 4.  
SEGMENT: 4 of 14  
SOURCE: \*\*\*human\*\*\*  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo

NUCLEIC ACID COUNT (NA): 34 a 67 c 63 g 52 t  
REFERENCE: 1 (bases 1 to 216)  
AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.; Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.; Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.; Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.; Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
TITLE (TI): A mutation in a case of early onset narcolepsy and a generalized absence of \*\*\*hypocretin\*\*\* peptides in \*\*\*human\*\*\* narcoleptic brains  
JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
OTHER SOURCE (OS): CA 133:348631  
REFERENCE: 2 (bases 1 to 216)  
AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research, Department of Psychiatry, Stanford University Medical



FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..216	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex4-F: 5'-CTGTCTGTCATGGTGGCTGTATGG-3', R1-ex4-R: 5'-CTCTCTTTGGTTGCAGCCAAGATG-3'"
exon	51..166	/gene="HCRTR1" /number=4

SEQUENCE (SEQ):

```
1 ggggtggggct cacggattgg gcctgactct gcatctcttg acccctgcag atgacctcta
61 tccaagatc taccacagtt gcttctttat tgtcacctac ctggcccccac tgggcctcat
121 ggccatggcc tatttccaga tattccgcaa gctctggggc cgccaggtga ggcccactct
181 gggcaggggc taggccagtc actgtgtggg ctgggg
```

L5 ANSWER 115 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S03 GenBank (R)  
GenBank ACC. NO. (GBN): AF202080  
GenBank VERSION (VER): AF202080.1 GI:11055231  
CAS REGISTRY NO. (RN): 300759-52-8  
SEQUENCE LENGTH (SQL): 344  
MOLECULE TYPE (CI): DNA; linear  
DIVISION CODE (CI): Primates  
DATE (DATE): 6 Feb 2001  
DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
(HCRTR1) gene, exon 3.  
SEGMENT: 3 of 14  
SOURCE: \*\*\*human\*\*\*  
ORGANISM (ORGN): Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
Hominidae; Homo  
NUCLEIC ACID COUNT (NA): 58 a 106 c 106 g 74 t  
REFERENCE: 1 (bases 1 to 344)  
AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigar,M.;  
Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
TITLE (TI): A mutation in a case of early onset narcolepsy and a  
generalized absence of \*\*\*hypocretin\*\*\* peptides in  
\*\*\*human\*\*\* narcoleptic brains  
JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
OTHER SOURCE (OS): CA 133:348631  
REFERENCE: 2 (bases 1 to 344)  
AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
Department of Psychiatry, Stanford University Medical  
Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
94305-5485, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..344	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex3-F: 5'-CGTCAGCCTCCTCACTCACCTACT-3', R1-ex3-R: 5'-TGGTAGGAGCCAGTCTAGGGTGTC-3'"
exon	51..294	/gene="HCRTR1" /number=3

SEQUENCE (SEQ):

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1 catcgtggtg tggcccccaa aatgaccgac gttgtgtccc cgtggggcag gctgtgtccg
61 tgtcagtggc agtgctaact ctcagcttca tcgcctgga cgcctggtat gccatctgcc
```



121 acccactatt gttcaagagc acagcccggc gggcccgtgg ctccatcctg ggcattctggg  
 181 ctgtgtcgcgt ggccatcatg gtgccccagg ctgcagtcac ggaatgcagc agtgtgctgc  
 241 ctgagctagc caaccgcaca cggctcttct cagtctgtga tgaacgctgg gcaggtaatg  
 301 gtggaagcct caagcaggca tcccctcagg tgggcacttt ggga

L5 ANSWER 116 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S02 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202079  
 GenBank VERSION (VER): AF202079.1 GI:11055230  
 CAS REGISTRY NO. (RN): 300759-51-7  
 SEQUENCE LENGTH (SQL): 279  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
 (HCRTR1) gene, exon 2.  
 SEGMENT: 2 of 14  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 48 a 98 c 68 g 65 t  
 REFERENCE: 1 (bases 1 to 279)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 279)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

FEATURES (FEAT):	Feature Key	Location	Qualifier
source	1..279		/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex2-F: 5'-GAAGGGGGTGTGTGGGAAGAG-3', R1-ex2-R: 5'-ACACTTCAGGGGTCATGAGCCA-3'"
exon	51..229		/gene="HCRTR1" /number=2

SEQUENCE (SEQ):  
 1 ctaggatggg tgtggctctg ccaccagctt cacctcgctg caccctgcag tctgcctggc  
 61 cgtgtggcgg aaccaccaca tgaggacagt caccaactac ttcattgtca acctgtccct  
 121 ggctgacggt ctggtgactg ctatctgcct gccggcagc ctgctggtgg acatcactga  
 181 gtcctggctg ttcggccatg ccctctgcaa ggcatcccc tatctacagg tgagctctgc  
 241 ccaggcacc ctcaccactc cttgtcacgc ctgtaaaaa

L5 ANSWER 117 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): F202078S01 GenBank (R)  
 GenBank ACC. NO. (GBN): AF202078  
 GenBank VERSION (VER): AF202078.1 GI:11055229  
 CAS REGISTRY NO. (RN): 300759-50-6  
 SEQUENCE LENGTH (SQL): 452  
 MOLECULE TYPE (CI): DNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 6 Feb 2001  
 DEFINITION (DEF): Homo sapiens \*\*\*hypocretin\*\*\* \*\*\*receptor\*\*\* -1  
 (HCRTR1) gene, exon 1.  
 SEGMENT: 1 of 14



SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 72 a 147 c 125 g 107 t 1 others  
 REFERENCE: 1 (bases 1 to 452)  
 AUTHOR (AU): Peyron,C.; Faraco,J.; Rogers,W.; Ripley,B.; Overeem,S.;  
 Charnay,Y.; Nevsimalova,S.; Aldrich,M.; Reynolds,D.;  
 Albin,R.; Li,R.; Hungs,M.; Pedrazzoli,M.; Padigaru,M.;  
 Kucherlapati,M.; Fan,J.; Maki,R.; Lammers,G.J.;  
 Bouras,C.; Kucherlapati,R.; Nishino,S.; Mignot,E.  
 TITLE (TI): A mutation in a case of early onset narcolepsy and a  
 generalized absence of \*\*\*hypocretin\*\*\* peptides in  
 \*\*\*human\*\*\* narcoleptic brains  
 JOURNAL (SO): Nat. Med., 6 (9), 991-997 ( \*\*\*2000\*\*\* )  
 OTHER SOURCE (OS): CA 133:348631  
 REFERENCE: 2 (bases 1 to 452)  
 AUTHOR (AU): Faraco,J.; Rogers,W.; Overeem,S.; Li,R.; Mignot,E.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (05-NOV-1999) Center for Narcolepsy Research,  
 Department of Psychiatry, Stanford University Medical  
 Center, 1201 Welch Road, MSLS Bldg. P112, Stanford, CA  
 94305-5485, USA

Feature Key	Location	Qualifier
source	1..452	/organism="Homo sapiens" /db-xref="taxon:9606" /note="amplify at 58 degrees, R1-ex1-F: 5'-CCTCCACCAATTTTCATGACTGTGA-3', R1-ex1-R: 5'-CAGAGCCACACCCATCCTAGTTCT-3'"
5'UTR	51..203	/gene="HCRT1"
exon	51..402	/gene="HCRT1" /number=1

SEQUENCE (SEQ):

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1 aatccctaatt gtttccttcc ttctctcttt tcccactccc tcctttcctt cctcccttca
61 ggaagtttga ggctgagacc cgaaaagacc tgggtgcaag cctccaggca ccctgaaggg
121 agtgggctga gggctggccc aagctccctc ctctccctct gtagagccta ggatgccctt
181 ctgctgcagc ggctcctgag cctatggagc cctcagccac cccaggggcc cagatggggg
241 tcccccttgg cagcagagag ccgtcccttg tgcctccaga ctatgaagat gagtttctcc
301 gctatctgtg gcgygattat ctgtacccaa aacagtatga gtgggtcctc atcgcagcct
361 atgtggctgt gttcgtcgtg gccctggtgg gcaacacgct gggtaggtcc agggcttgcc
421 cggcagtgct gccggctttc cctggggatt ga
  
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L5 ANSWER 118 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF041245 GenBank (R)  
 GenBank ACC. NO. (GBN): AF041245  
 GenBank VERSION (VER): AF041245.1 GI:2897127  
 CAS REGISTRY NO. (RN): 204420-47-3  
 SEQUENCE LENGTH (SQL): 1878  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 24 Feb 1998  
 DEFINITION (DEF): Homo sapiens \*\*\*orexin\*\*\* \*\*\*receptor\*\*\* -2  
 mRNA, complete cds.  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 473 a 458 c 447 g 500 t  
 REFERENCE: 1 (bases 1 to 1878)  
 AUTHOR (AU): Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;  
 Chemelli,R.M.; Tanaka,H.; Williams,S.C.;  
 Richardson,J.A.; Kozlowski,G.P.; Wilson,S.;  
 Arch,J.R.S.; Buckingham,R.E.; Haynes,A.C.; A.  
 Carr,S.A.; Annan,R.S.; McNulty,D.E.; Liu,W.-S.;  
 Terrett,J.A.; Elshourbagy,N.A.; Bergsma,D.J.;  
 Yanagisawa,M.  
 TITLE (TI): Orexins and \*\*\*orexin\*\*\* receptors: a family of



hypothalamic neuropeptides and G protein-coupled  
receptors that regulate feeding behavior  
JOURNAL (SO): cell, 92 (4), 573-585 ( \*\*\*1998\*\*\* )  
OTHER SOURCE (OS): CA 128:290571  
REFERENCE: 2 (bases 1 to 1878)  
AUTHOR (AU): Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;  
Chemelli,R.M.; Tanaka,H.; Williams,S.C.;  
Richardson,J.A.; Kozlowski,G.P.; Wilson,S.;  
Arch,J.R.S.; Buckingham,R.E.; Haynes,A.C.; A.  
Carr,S.A.; Annan,R.S.; McNulty,D.E.; Liu,W.-S.;  
Terrett,J.A.; Elshourbagy,N.A.; Bergsma,D.J.;  
Yanagisawa,M.  
TITLE (TI): Direct Submission  
JOURNAL (SO): Submitted (07-JAN-1998) HHMI/Department of Molecular  
Genetics, University of Texas Southwestern Medical  
Center at Dallas, 5323 Harry Hines Blvd., Rm. Y5.224,  
Dallas, TX 75235-9050, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1878	/organism="Homo sapiens" /db-xref="taxon:9606" /chromosome="6" /map="6cen(p11-q11)"
CDS	360..1694	/note="OX2R; G protein-coupled receptor" /codon-start=1 /product="orexin receptor-2" /protein-id="AAC39602.1" /db-xref="GI:2897128" /translation="MSGTKLEDSPPCRNWSSASE LNETQEPFLNPTDYDDEEFLRYLW REYLHPKEYEWLIAGYIIVFVVALIGNVLVCVA VWKNHHMRTVTNYFIVNLSLADVL VTITCLPATLVVDITETWFFGQSLCKVIPYLQTV SVSVSVLTLSCIALDRWYAICHPL MFKSTAKRARNISIVIIWIVSCIIMIPQAIVMECS TVFPGLANKTTLFTVCDERWGGEI YPKMYHICFFLVTYMAPLCLMVLAYLQIFRKLWC RQIPGTSSVVQRKWKPLQPVSQPR GPGQPTKSRMSAVAAEIKQIRARRKTARMLMVVL LVFAICYLPISILNVLKRFGMFA HTEDRETVYAWFTFSHWLVYANSAANPIIYNFLS GKFFREEFKAAFSCCLGVHHRQED RLTRGRTSTESRKSLLTQISNFDNISKLSEQVVL TSISTLPAANGAGPLQNW"

# SEQUENCE (SEQ):

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541	acatcatcgt	gttcgtcgtg	gctctcattg	ggaacgtcct	ggtttgctg	gcagtgtgga
601	agaaccacca	catgaggacg	gtaaccaact	acttcatagt	caatctttct	ctggctgatg
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901	gcattataat	gattcctcag	gccatcgta	tggagtgcag	caccgtgttc	ccaggcttag
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1021	agatgtacca	catctgtttc	tttctgggtg	catacatggc	accactgtgt	ctcatggtgt
1081	tggcttatct	gcaaatattt	cgcaaacctc	ggtgtcgaca	gatccctgga	acatcatctg
1141	tagttcagag	aaaatggaag	cccctgcagc	ctgtttcaca	gcctcgaggg	ccaggacagc
1201	caacgaagtc	ccggatgagc	gctgtggcgg	ctgaaataaa	gcagatccga	gccagaagga
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1321	gcatectcaa	tgtgctaaag	agagtatttg	ggatgtttgc	ccatactgaa	gacagagaga
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1441	caattattta	taattttctc	agtggaaaat	ttcgagagga	atttaaagct	gcgttttctt
1501	gctgttgcc	tggagttcac	catcgccagg	aggatcggtc	caccagggga	cgaactagca
1561	cagagagccg	gaagtccttg	accactcaaa	tcagcaactt	tgataacata	tcaaaacttt



1621 ctgagcaagt tgtgctcact agcataagca cactcccagc agccaatgga gcaggaccac  
 1681 ttcaaaactg gtagaatatt tattcatatg acaaggatac ctgagtaaaa ctatcctttt  
 1741 taaaatcact gggaacagaa attttattat cctatgatgt gaagctaaaa ttacttgtgg  
 1801 atcttttttt tttttaatct attgctcttt ggaaataaaa aaaaagtcag tttaaaatga  
 1861 aaaaaaaaaa aaaaaaaaaa

L5 ANSWER 119 OF 154 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF041243 GenBank (R)  
 GenBank ACC. NO. (GBN): AF041243  
 GenBank VERSION (VER): AF041243.1 GI:2897123  
 CAS REGISTRY NO. (RN): 392043-36-6  
 SEQUENCE LENGTH (SQL): 1564  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Primates  
 DATE (DATE): 24 Feb 1998  
 DEFINITION (DEF): Homo sapiens \*\*\*orexin\*\*\* \*\*\*receptor\*\*\* -1  
 mRNA, complete cds.  
 SOURCE: \*\*\*human\*\*\*  
 ORGANISM (ORGN): Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;  
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;  
 Hominidae; Homo  
 NUCLEIC ACID COUNT (NA): 268 a 513 c 436 g 347 t  
 REFERENCE: 1 (bases 1 to 1564)  
 AUTHOR (AU): Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;  
 Chemelli,R.M.; Tanaka,H.; Williams,S.C.;  
 Richardson,J.A.; Kozlowski,G.P.; Wilson,S.;  
 Arch,J.R.S.; Buckingham,R.E.; Haynes,A.C.; A.  
 Carr,S.A.; Annan,R.S.; McNulty,D.E.; Liu,W.-S.;  
 Terrett,J.A.; Elshourbagy,N.A.; Bergsma,D.J.;  
 Yanagisawa,M.  
 TITLE (TI): orexins and \*\*\*orexin\*\*\* receptors: a family of  
 hypothalamic neuropeptides and G protein-coupled  
 receptors that regulate feeding behavior  
 JOURNAL (SO): Cell, 92 (4), 573-585 ( \*\*\*1998\*\*\* )  
 OTHER SOURCE (OS): CA 128:290571  
 REFERENCE: 2 (bases 1 to 1564)  
 AUTHOR (AU): Sakurai,T.; Amemiya,A.; Ishii,M.; Matsuzaki,I.;  
 Chemelli,R.M.; Tanaka,H.; Williams,S.C.;  
 Richardson,J.A.; Kozlowski,G.P.; Wilson,S.;  
 Arch,J.R.S.; Buckingham,R.E.; Haynes,A.C.; A.  
 Carr,S.A.; Annan,R.S.; McNulty,D.E.; Liu,W.-S.;  
 Terrett,J.A.; Elshourbagy,N.A.; Bergsma,D.J.;  
 Yanagisawa,M.  
 TITLE (TI): Direct Submission  
 JOURNAL (SO): Submitted (07-JAN-1998) HHMI/Department of Molecular  
 Genetics, University of Texas Southwestern Medical  
 Center at Dallas, 5323 Harry Hines Blvd., Rm. Y5.224,  
 Dallas, TX 75235-9050, USA

# FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1564	/organism="Homo sapiens" /db-xref="taxon:9606" /chromosome="1" /map="1p33"
CDS	154..1431	/note="OX1R; G protein-coupled receptor" /codon-start=1 /product="orexin receptor-1" /protein-id="AAC39601.1" /db-xref="GI:2897124" /translation="MEPSATPGAQMGVPPGSREP SPVPPDYEDFLRYLWRDYLYPEKQ YEWVLIAAYVAVFVALVGNLTLCVAVRNHHMR TVTNYFIVNLSLADVLVTAICLPA SLLVDITESWLFGHALCKVIPYLQAVSVSAVLT LSFIALDRWYAICHPLLFKSTARR ARGSILGIWAVSLAIMVPQAAVMECSSVLP RTRLFSVCDERWADDLYPKIYHSC FFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTT ALVRNWKRPDQLGDLEQGLSGEP QPRGRAFLAEVKQMRARRKTAKMLMVLLVFALC YLPISVLNVLKRVMFRQASDRE"



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1141 gccagtgacc gcgaagctgt ctacgcctgc ttcaccttct cccactggct ggtgtacgcc
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1561 tcct

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L5 ANSWER 120 OF 154 IFIPAT COPYRIGHT 2004 IFI on STN  
AN 03913880 IFIPAT;IFIUDB;IFICDB  
TI PHENYL UREA AND PHENYL THIOUREA DERIVATIVES; PHENYL UREA AND PHENYL  
THIOUREA DERIVATIVES AND THEIR USE AS PHARMACEUTICALS  
IN Coulton Steven (GB); Johns Amanda (GB); Porter Roderick Alan (GB)  
PA SmithKline Beecham PLC GB (28684)  
PI US 6596730 B1 20030722  
WO 2000047580 20000817  
AI US 2001-913228 20011205  
WO 2000-EP1142 20000210  
20011205 PCT 371 date  
20011205 PCT 102(e) date  
PRAI GB 1999-3241 19990212  
GB 1999-26441 19991108  
FI US 6596730 20030722  
DT Utility; Granted Patent - Utility, no Pre-Grant Publication  
FS CHEMICAL  
GRANTED  
MRN 012689 MFN: 0812  
CLMN 3

L5 ANSWER 121 OF 154 IFIPAT COPYRIGHT 2004 IFI on STN  
AN 03666179 IFIPAT;IFIUDB;IFICDB  
TI PHENYLUREA AND PHENYLTHIO UREA DERIVATIVES; \*\*\*OREXIN\*\*\*  
\*\*\*RECEPTORS\*\*\* FOR SLEEP DISORDERS AND EATING DISORDERS  
IN Johns Amanda (GB); Porter Roderick Alan (GB)  
PA SmithKline Beecham PLC GB (28684)  
PI US 6372757 B1 20020416  
WO 9958533 19991118  
AI US 2000-700002 20001108  
WO 1999-EP3100 19990504  
20001208 PCT 371 date  
20001208 PCT 102(e) date  
PRAI GB 1998-9972 19980508  
GB 1998-9988 19980508  
GB 1999-3268 19990212  
FI US 6372757 20020416  
DT Utility  
FS CHEMICAL  
GRANTED  
MRN 011439 MFN: 0412  
CLMN 11



L5 ANSWER 122 OF 154 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 1999:2482 IMSDRUGNEWS  
TITLE: gene discovery, narcolepsy Stanford University gene  
identified  
SOURCE: R&D Focus Drug News ( \*\*\*30 Aug 1999\*\*\* ).  
WORD COUNT: 66

L5 ANSWER 123 OF 154 JICST-EPlus COPYRIGHT 2004 JST on STN

AN 1000402955 JICST-EPlus  
TI Structure-Activity Relationship Studies on the Novel Neuropeptide  
\*\*\*Orexin\*\*\*  
AU ASAH I S; EGASHIRA S; MATSUDA M; IWAASA H; KANATANI A; OHKUBO M; IHARA M;  
MORISHIMA H  
SAKURAI T  
CS Banyu Tsukuba Res. Inst., Ibaraki, Jpn  
Univ. Tsukuba, Ibaraki, Jpn  
SO Pept Sci, (2000) vol. 1999, pp. 37-40. Journal Code: X0695A (Fig. 1, Tbl.  
1, Ref. 10)  
ISSN: 1344-7661  
CY Japan  
DT Conference; Short Communication  
LA English  
STA New

L5 ANSWER 124 OF 154 JICST-EPlus COPYRIGHT 2004 JST on STN

AN 980530656 JICST-EPlus  
TI \*\*\*Orexins\*\*\* and \*\*\*orexin\*\*\* \*\*\*receptors\*\*\* .Novel  
neuropeptides that control feeding behavior.  
AU SAKURAI TAKESHI  
CS Univ. of Tsukuba, Inst. of Basic Med. Sci.  
SO Saibo Kogaku (Cell Technology), (1998) vol. 17, no. 6, pp. 864-865.  
Journal Code: Y0229A (Fig. 2, Ref. 2)  
ISSN: 0287-3796  
CY Japan  
DT Journal; Commentary  
LA Japanese  
STA New

L5 ANSWER 125 OF 154 LIFESCI COPYRIGHT 2004 CSA on STN

AN 2000:67847 LIFESCI  
TI Linkage and physical mapping of the porcine prepro- \*\*\*orexin\*\*\* gene  
AU Malek, M.; Marklund, S.; Dyer, C.; Matteri, R.; Rothschild, M.  
CS Department of Animal Science, 2255H Kildee Hall, Iowa State University,  
Ames, IA 50011, USA; E-mail: mfrothsc@iastate.edu  
SO Mammalian Genome [Mamm. Genome], ( \*\*\*20000400\*\*\* ) vol. 11, no. 4, pp.  
342-343.  
ISSN: 0938-8990.  
DT Journal  
FS G  
LA English

L5 ANSWER 126 OF 154 MEDLINE on STN

AN 2003026155 MEDLINE  
DN PubMed ID: 12532767  
TI \*\*\*Orexin\*\*\* --a view discovery in obese research.  
AU He T P  
SO Sheng li ke xue jin zhan [Progress in physiology], \*\*\* (2000 Jan) \*\*\* 31  
(1) 47-9. Ref: 9  
Journal code: 20730140R. ISSN: 0559-7765.  
CY China  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA Chinese  
FS Priority Journals  
EM 200305  
ED Entered STN: 20030121  
Last Updated on STN: 20030524  
Entered Medline: 20030523

L5 ANSWER 127 OF 154 MEDLINE on STN

AN 2001120042 MEDLINE  
DN PubMed ID: 11212299  
TI The \*\*\*hypocretins\*\*\* / \*\*\*orexins\*\*\* : novel hypothalamic  
neuropeptides involved in different physiological systems.



AU de Lecea L; Sutcliffe J G  
 CS Department of Molecular Biology, The Scripps Research Institute, La Jolla,  
 California 92037, USA.. llecea@scripps.edu  
 NC GM32355 (NIGMS)  
 MH58543 (NIMH)  
 NS33396 (NINDS)  
 SO Cellular and molecular life sciences : CMLS, \*\*\* (1999 Oct 30)\*\*\* 56  
 (5-6) 473-80. Ref: 50  
 Journal code: 9705402. ISSN: 1420-682X.  
 CY Switzerland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 200102  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20010215

L5 ANSWER 128 OF 154 MEDLINE on STN  
 AN 2001105669 MEDLINE  
 DN PubMed ID: 11099941  
 TI Forty winks: molecular basis of sleep disorders.  
 AU Sansom C  
 SO Molecular medicine today, \*\*\* (2000 Dec)\*\*\* 6 (12) 453.  
 Journal code: 9508560. ISSN: 1357-4310.  
 CY ENGLAND: United Kingdom  
 DT News Announcement  
 LA English  
 FS Priority Journals  
 EM 200102  
 ED Entered STN: 20010322  
 Last Updated on STN: 20020420  
 Entered Medline: 20010208

L5 ANSWER 129 OF 154 MEDLINE on STN  
 AN 2001023913 MEDLINE  
 DN PubMed ID: 10880509  
 TI The \*\*\*orexin\*\*\* OX1 \*\*\*receptor\*\*\* activates a novel Ca<sup>2+</sup> influx  
 pathway necessary for coupling to phospholipase C.  
 AU Lund P E; Shariatmadari R; Uustare A; Detheux M; Parmentier M; Kukkonen J  
 P; Akerman K E  
 CS Department of Physiology, Division of Cell Physiology, Uppsala University,  
 Biomedical Centre (BMC), P.O. Box 572, S-75123 Uppsala, Sweden.  
 SO Journal of biological chemistry, \*\*\* (2000 Oct 6)\*\*\* 275 (40) 30806-12.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200011  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20001113

L5 ANSWER 130 OF 154 MEDLINE on STN  
 AN 2000126302 MEDLINE  
 DN PubMed ID: 10657511  
 TI Two important systems in energy homeostasis: melanocortins and  
 melanin-concentrating hormone.  
 AU Tritos N A; Maratos-Flier E  
 CS Joslin Diabetes Center, Boston, MA, 02215, USA.  
 SO Neuropeptides, \*\*\* (1999 Oct)\*\*\* 33 (5) 339-49. Ref: 98  
 Journal code: 8103156. ISSN: 0143-4179.  
 CY SCOTLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, ACADEMIC)  
 LA English  
 FS Priority Journals  
 EM 200006  
 ED Entered STN: 20000616  
 Last Updated on STN: 20000616  
 Entered Medline: 20000602



L5 ANSWER 131 OF 154 MEDLINE on STN  
 AN 2000081637 MEDLINE  
 DN PubMed ID: 10615891  
 TI \*\*\*Hypocretin\*\*\* ( \*\*\*orexin\*\*\* ) deficiency in \*\*\*human\*\*\*  
 narcolepsy.  
 CM Comment in: Lancet. 2000 Apr 8;355(9211):1274-5. PubMed ID: 10770327  
 Comment in: Lancet. 2000 Jan 1;355(9197):6. PubMed ID: 10615881  
 Comment in: Lancet. 2000 Mar 4;355(9206):847. PubMed ID: 10711955  
 AU Nishino S; Ripley B; Overeem S; Lammers G J; Mignot E  
 NC HL59601 (NHLBI)  
 NS237724 (NINDS)  
 NS33797 (NINDS)  
 +  
 SO Lancet, \*\*\* (2000 Jan 1) \*\*\* 355 (9197) 39-40.  
 Journal code: 2985213R. ISSN: 0140-6736.  
 CY ENGLAND: United Kingdom  
 DT Letter  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals  
 EM 200001  
 ED Entered STN: 20000204  
 Last Updated on STN: 20010815  
 Entered Medline: 20000121

L5 ANSWER 132 OF 154 MEDLINE on STN  
 AN 2000034069 MEDLINE  
 DN PubMed ID: 10568074  
 TI [ \*\*\*Orexins\*\*\* and \*\*\*orexin\*\*\* \*\*\*receptors\*\*\* ].  
 Orexins: a orexinovore receptor.  
 AU Kotaska K; Prusa R  
 CS Ustav klinické biochemie a patobiochemie 2. LF UK, Praha.  
 SO Ceskoslovenska fysiologie / Ustredni ustav biologicky, \*\*\* (1999 Aug) \*\*\*  
 48 (3) 119-21. Ref: 17  
 Journal code: 2984710R. ISSN: 1210-6313.  
 CY Czech Republic  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA Czech  
 FS Priority Journals  
 EM 199912  
 ED Entered STN: 20000113  
 Last Updated on STN: 20000113  
 Entered Medline: 19991215

L5 ANSWER 133 OF 154 MEDLINE on STN  
 AN 1999409631 MEDLINE  
 DN PubMed ID: 10481905  
 TI Narcolepsy: a key role for \*\*\*hypocretins\*\*\* ( \*\*\*orexins\*\*\* ).  
 CM Comment on: Cell. 1999 Aug 20;98(4):437-51. PubMed ID: 10481909  
 Comment on: Cell. 1999 Aug 6;98(3):365-76. PubMed ID: 10458611  
 AU Siegel J M  
 CS Neurobiology Research, Veterans Administration Medical Center, North  
 Hills, California 91343, USA.  
 SO Cell, \*\*\* (1999 Aug 20) \*\*\* 98 (4) 409-12. Ref: 20  
 Journal code: 0413066. ISSN: 0092-8674.  
 CY United States  
 DT Commentary  
 Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 199909  
 ED Entered STN: 19991005  
 Last Updated on STN: 20020420  
 Entered Medline: 19990923

L5 ANSWER 134 OF 154 MEDLINE on STN  
 AN 1999382839 MEDLINE  
 DN PubMed ID: 10453467  
 TI Novel neurotransmitters for sleep and energy homeostasis.  
 AU Sutcliffe J G; de Lecea L  
 CS Department of Molecular Biology, Scripps Research Institute, La Jolla,  
 California 92037, USA.  
 NC GM32355 (NIGMS)



MH58543 (NIMH)  
NS33396 (NINDS)  
SO Results and problems in cell differentiation, \*\*\* (1999) \*\*\* 26 239-55.  
Ref: 30  
Journal code: 0173555. ISSN: 0080-1844.  
CY GERMANY: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, ACADEMIC)  
LA English  
FS Priority Journals  
EM 199910  
ED Entered STN: 19991014  
Last Updated on STN: 19991014  
Entered Medline: 19991006

L5 ANSWER 135 OF 154 MEDLINE on STN  
AN 1999106186 MEDLINE  
DN PubMed ID: 9889512  
TI [ \*\*\*Orexins\*\*\* --new hypothalamic peptides that stimulate appetite].  
Orexiner--nya hypotalamiska peptider som stimulerar aptit.  
AU Meister B; Hakansson M L  
CS Institutionen for neurovetenskap, Karolinska institutet, Stockholm.  
SO Lakartidningen, \*\*\* (1998 Dec 16) \*\*\* 95 (51-52) 5885-7. Ref: 10  
Journal code: 0027707. ISSN: 0023-7205.  
CY Sweden  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA Swedish  
FS Priority Journals  
EM 199901  
ED Entered STN: 19990209  
Last Updated on STN: 19990209  
Entered Medline: 19990125

L5 ANSWER 136 OF 154 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS  
RESERVED. on STN  
AN 2000-0356529 PASCAL  
CP Copyright .COPYRGT. 2000 INIST-CNRS. All rights reserved.  
TIEN Reciprocal relation of food intake and sympathetic activity :  
experimental observations and clinical implications  
Endocrinology of obesity: basic, clinical and therapeutic aspects  
AU BRAY G. A.  
PASQUALI Renato (ed.)  
CS Pennington Biomedical Research Center, Baton Rouge, LA 70808, United  
States  
SO International journal of obesity. Supplement, \*\*\* (2000) \*\*\* , 24(2),  
S8-S17, 101 refs.  
Conference: Endocrinology of Obesity: Basic, Clinical and Therapeutic  
Aspects. Satellite Symposium, Venice (Italy), Sep 1998  
ISSN: 1359-6373  
DT Journal; Conference  
BL Analytic  
CY United Kingdom  
LA English  
AV INIST-18243s, 354000090663260030

L5 ANSWER 137 OF 154 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN  
AN 1648228 PHARMAML  
TI New drug discovery: is genomics delivering? asks Lehman Brothers  
SO Marketletter August 16, 1999  
DT Newsletter  
WC 1420

L5 ANSWER 138 OF 154 PHIN COPYRIGHT 2004 PJB on STN  
AN 1999:14964 PHIN  
DN S00633978  
DED 20 Aug 1999  
TI New research offers hope in sleep  
SO Scrip ( \*\*\*1999\*\*\* ) No. 2465 p21  
DT Newsletter  
FS FULL

L5 ANSWER 139 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN



ACCESSION NUMBER: 2000:889662 PROMT  
TITLE: SCIENCE SCAN RECOMBINANT DRUG SAVED LIVES, LIMBS OF SEPTIC SHOCK PATIENTS IN LARGE CONTROLLED CLINICAL TRIAL.  
SOURCE: BIOWORLD Today, ( \*\*\*16 Oct 2000\*\*\* ) Vol. 11, No. 200.  
PUBLISHER: American Health Consultants, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 958  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 140 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 2000:773694 PROMT  
TITLE: Neurocrine Biosciences, Inc. Announces Nature Medicine Narcolepsy Publication; Absence of \*\*\*Hypocretin\*\*\* is Seen to be a Cause of Narcolepsy.  
SOURCE: Business Wire, ( \*\*\*29 Aug 2000\*\*\* ) pp. 1023.  
PUBLISHER: Business Wire  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 855  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 141 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 2000:642390 PROMT  
TITLE: Study of Fat-Reducing Protein Opens New Path Toward Obesity Treatment.  
SOURCE: PR Newswire, ( \*\*\*26 Jul 2000\*\*\* ) pp. 8389.  
PUBLISHER: PR Newswire Association, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 759  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 142 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:595824 PROMT  
TITLE: SmithKline Beecham Scientists Identify \*\*\*Receptor\*\*\* For Potent Vasoconstricting Hormone.  
SOURCE: PR Newswire, ( \*\*\*15 Sep 1999\*\*\* ) pp. 8053.  
PUBLISHER: PR Newswire Association, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 657  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 143 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:567548 PROMT  
TITLE: Narcolepsy Gene Identified in Dogs.  
SOURCE: Applied Genetics News, ( \*\*\*August 1999\*\*\* ) Vol. 20, No. 1.  
ISSN: 0271-7107.  
PUBLISHER: Business Communications Company, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 273  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 144 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:547980 PROMT  
TITLE: New drug discovery: is genomics delivering? asks Lehman Brothers.  
SOURCE: Marketletter, ( \*\*\*23 Aug 1999\*\*\* ) .  
ISSN: 0951-3175.  
PUBLISHER: Marketletter Publications Ltd.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 1417  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 145 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN



ACCESSION NUMBER: 1999:511958 PROMT  
TITLE: TOO MUCH SLEEP CAN BE HAZARDOUS TO HEALTH.  
AUTHOR(S): Leff, David N.  
SOURCE: BIOWORLD Today, ( \*\*\*10 Aug 1999\*\*\* ) vol. 10, No. 153.  
PUBLISHER: American Health Consultants, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 1006  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 146 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:500436 PROMT  
TITLE: UT Southwestern Researchers Create Mice with Narcolepsy.  
SOURCE: PR Newswire, ( \*\*\*5 Aug 1999\*\*\* ) pp. 6759.  
PUBLISHER: PR Newswire Association, Inc.  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 385  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 147 OF 154 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:497515 PROMT  
TITLE: Stanford Researchers Nab Gene for Sleep Disorder.  
SOURCE: Business Wire, ( \*\*\*5 Aug 1999\*\*\* ) pp. 312.  
PUBLISHER: Business Wire  
DOCUMENT TYPE: Newsletter  
LANGUAGE: English  
WORD COUNT: 1146  
\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

L5 ANSWER 148 OF 154 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN

AN 2000:104862 SCISEARCH  
GA The Genuine Article (R) Number: 279MU  
TI \*\*\*Hypocretin\*\*\* ( \*\*\*orexin\*\*\* ) deficiency in \*\*\*human\*\*\*  
narcolepsy  
AU Nishino S; Ripley B; Overeem S; Lammers G J; Mignot E (Reprint)  
CS STANFORD UNIV, SCH MED, DEPT PSYCHIAT, CTR NARCOLEPSY, STANFORD, CA 94305  
(Reprint); STANFORD UNIV, SCH MED, DEPT PSYCHIAT, CTR NARCOLEPSY,  
STANFORD, CA 94305; LEIDEN UNIV, MED CTR, DEPT NEUROL & CLIN NEUROPHYSIOL,  
NL-2300 RC LEIDEN, NETHERLANDS  
CYA USA; NETHERLANDS  
SO LANCET, ( \*\*\*1 JAN 2000\*\*\* ) vol. 355, No. 9197, pp. 39-40.  
Publisher: LANCET LTD, 84 THEOBALDS RD, LONDON WC1X 8RR, ENGLAND.  
ISSN: 0140-6736.  
DT Article; Journal  
FS LIFE; CLIN  
LA English  
REC Reference Count: 5  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L5 ANSWER 149 OF 154 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.  
on STN

AN 1999:853265 SCISEARCH  
GA The Genuine Article (R) Number: 252ER  
TI Stimulation of feeding behavior and food consumption in the goldfish,  
Carassius auratus, by \*\*\*orexin\*\*\* -A and \*\*\*orexin\*\*\* -B  
AU Volkoff H; Bjorklund J M; Peter R E (Reprint)  
CS UNIV ALBERTA, DEPT BIOL SCI, EDMONTON, AB T6G 2E9, CANADA (Reprint); UNIV  
ALBERTA, DEPT BIOL SCI, EDMONTON, AB T6G 2E9, CANADA  
CYA CANADA  
SO BRAIN RESEARCH, ( \*\*\*6 NOV 1999\*\*\* ) vol. 846, No. 2, pp. 204-209.  
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,  
NETHERLANDS.  
ISSN: 0006-8993.  
DT Article; Journal  
FS LIFE  
LA English  
REC Reference Count: 25  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L5 ANSWER 150 OF 154 USPATFULL on STN  
AN 2003:279117 USPATFULL  
TI Hypothalamus-specific polypeptides



IN Sutcliffe, J. Gregor, Cardiff, CA, United States  
 Gautvik, Kaare M., Oslo, NORWAY  
 De Lecea, Luis, Del Mar, CA, United States  
 Bloom, Floyd E., San Diego, CA, United States  
 Danielson, Patria E., San Diego, CA, United States  
 Gautvik, Vigdis T., Oslo, NORWAY  
 Kilduff, Thomas S., Menlo Park, CA, United States  
 Foye, Pamela E., San Diego, CA, United States  
 PA The Scripps Research Institute, La Jolla, CA, United States (U.S.  
 corporation)  
 PI US 6635479 B1 20031021  
 WO 9805352 19980212 <--  
 AI US 1999-230896 19990202 (9)  
 WO 1997-US13657 19970801  
 PRAI US 1996-23220P 19960802 (60)  
 DT Utility  
 FS GRANTED  
 LN.CNT 3050  
 INCL INCLM: 435/325.000  
 INCLS: 435/320.100; 536/023.100; 536/023.500  
 NCL NCLM: 435/325.000  
 NCLS: 435/320.100; 536/023.100; 536/023.500  
 IC [7]  
 ICM: C07H021-04  
 ICS: C12N015-00; C12N015-09; C12N005-00; C12N005-02  
 EXF 536/23.1; 536/22.1; 536/23.5; 530/300; 530/350; 435/320.1; 435/325  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 151 OF 154 USPATFULL on STN  
 AN 2003:13320 USPATFULL  
 TI Use of \*\*\*orexin\*\*\* \*\*\*receptor\*\*\* antagonists  
 IN Irving, Elaine Alison, Bengeo, UNITED KINGDOM  
 Sanger, Gareth John, Sawbridgeworth, UNITED KINGDOM  
 PA SmithKline Beecham p.l.c., Brentford, UNITED KINGDOM (non-U.S.  
 corporation)  
 PI US 6506774 B1 20030114  
 WO 2000047284 20000817  
 AI US 2001-913230 20011130 (9)  
 WO 2000-EP1147 20000210  
 PRAI GB 1999-3265 19990212  
 GB 1999-3278 19990212  
 GB 1999-3282 19990212  
 GB 1999-3284 19990212  
 GB 1999-6061 19990317  
 DT Utility  
 FS GRANTED  
 LN.CNT 405  
 INCL INCLM: 514/311.000  
 INCLS: 514/312.000; 514/313.000  
 NCL NCLM: 514/311.000  
 NCLS: 514/312.000; 514/313.000  
 IC [7]  
 ICM: A61K031-47  
 EXF 514/311; 514/312; 514/313  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 152 OF 154 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN 2000-588952 [56] WPIDS  
 DNC C2000-175936  
 TI Obesity treatment comprises administering N-(4-phenoxyphenyl)-oxamic acid  
 derivatives or related compounds.  
 DC B05  
 IN CORNELIUS, P; HARGROVE, D M; MORGAN, B P; SWICK, A G; HARGROVE, D  
 PA (PFIZ) PFIZER PROD INC; (CORN-I) CORNELIUS P; (HARG-I) HARGROVE D;  
 (MORG-I) MORGAN B P; (SWIC-I) SWICK A G; (PFIZ) PFIZER INC  
 CYC 33  
 PI EP 1036564 A1 20000920 (200056)\* EN 22 A61K031-225 <--  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI  
 AU 2000016353 A 20000907 (200056) A61K031-167 <--  
 CA 2299972 A1 20000901 (200059) EN A61K031-21 <--  
 JP 2000256190 A 20000919 (200060) 15 A61K031-167 <--  
 HU 2000000921 A2 20001228 (200111) A61K031-185 <--  
 KR 2001006712 A 20010126 (200152) A61K031-196  
 ZA 2000001000 A 20011031 (200173) 41 C07C000-00  
 NZ 503122 A 20011130 (200207) A61K031-24



US 6344481 B1 20020205 (200211) A61K031-24  
 US 2002035153 A1 20020321 (200224)# A61K031-195  
 US 6555578 B2 20030429 (200331) A61K031-24  
 KR 368354 B 20030124 (200339) A61K031-196  
 CA 2299972 C 20030819 (200357) EN A61K031-21  
 ADT EP 1036564 A1 EP 2000-300830 20000203; AU 2000016353 A AU 2000-16353  
 20000211; CA 2299972 A1 CA 2000-2299972 20000229; JP 2000256190 A JP  
 2000-49507 20000225; HU 2000000921 A2 HU 2000-921 20000228; KR 2001006712  
 A KR 2000-9860 20000228; ZA 2000001000 A ZA 2000-1000 20000229; NZ 503122  
 A NZ 2000-503122 20000229; US 6344481 B1 Provisional US 1999-122015P  
 19990301, US 2000-488110 20000120; US 2002035153 A1 Div ex US 2000-488110  
 20000120, US 2001-978980 20011016; US 6555578 B2 Provisional US  
 1999-122015P 19990301, Div ex US 2000-488110 20000120, US 2001-978980  
 20011016; KR 368354 B KR 2000-9860 20000228; CA 2299972 C CA 2000-2299972  
 20000229  
 FDT US 6555578 B2 Div ex US 6344481; KR 368354 B Previous Publ. KR 2001006712  
 PRAI US 1999-122015P 19990301; US 2000-488110 20000120;  
 US 2001-978980 20011016  
 IC ICM A61K031-167; A61K031-185; A61K031-195; A61K031-196; A61K031-21;  
 A61K031-225; A61K031-24; C07C000-00  
 ICS A61K031-192; A61K031-235; A61K045-00; A61P003-04; A61P043-00;  
 C07D000-00  
 L5 ANSWER 153 OF 154 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN 2000-105551 [09] WPIDS  
 DNC C2000-031609  
 TI New phenyl urea and phenylthio urea derivatives useful as \*\*\*orexin\*\*\*  
 antagonists for treating e.g. obesity, insomnia, schizophrenia, manic  
 depression and diabetes.  
 DC B02  
 IN JOHNS, A; PORTER, R A  
 PA (SMIK) SMITHKLINE BEECHAM PLC  
 CYC 87  
 PI WO 9958533 A1 19991118 (200009)\* EN 33 C07D471-04 <--  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
 OA PT SD SE SL SZ UG ZW  
 W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB  
 GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
 LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
 TT UA UG US UZ VN YU ZA ZW  
 AU 9940377 A 19991129 (200018) C07D471-04 <--  
 EP 1075478 A1 20010214 (200111) EN C07D471-04  
 R: BE CH DE ES FR GB IT LI NL  
 US 6372757 B1 20020416 (200232) A61K031-435  
 EP 1075478 B1 20030416 (200328) EN C07D471-04  
 R: BE CH DE ES FR GB IT LI NL  
 DE 69906960 E 20030522 (200341) C07D471-04  
 JP 2003522101 W 20030722 (200350) 43 C07D471-04  
 ES 2196806 T3 20031216 (200413) C07D471-04  
 ADT WO 9958533 A1 WO 1999-EP3100 19990504; AU 9940377 A AU 1999-40377  
 19990504; EP 1075478 A1 EP 1999-923540 19990504; WO 1999-EP3100 19990504;  
 US 6372757 B1 WO 1999-EP3100 19990504; US 2000-700002 20001108; EP 1075478  
 B1 EP 1999-923540 19990504; WO 1999-EP3100 19990504; DE 69906960 E DE  
 1999-606960 19990504; EP 1999-923540 19990504; WO 1999-EP3100 19990504; JP  
 2003522101 W WO 1999-EP3100 19990504; JP 2000-548337 19990504; ES 2196806  
 T3 EP 1999-923540 19990504  
 FDT AU 9940377 A Based on WO 9958533; EP 1075478 A1 Based on WO 9958533; US  
 6372757 B1 Based on WO 9958533; EP 1075478 B1 Based on WO 9958533; DE  
 69906960 E Based on EP 1075478, Based on WO 9958533; JP 2003522101 W Based  
 on WO 9958533; ES 2196806 T3 Based on EP 1075478  
 PRAI GB 1999-3268 19990212; GB 1998-9972 19980508;  
 GB 1998-9988 19980508  
 IC ICM A61K031-435; C07D471-04  
 ICS A61K031-4375; A61K031-44; A61P003-04; A61P015-00; A61P025-00;  
 A61P025-04; A61P025-18; A61P025-20; A61P025-22; A61P025-24;  
 A61P043-00  
 ICI C07D221:00; C07D221:00, C07D471-04; C07D221:00, C07D471-04; C07D221:00,  
 C07D471-04

L5 ANSWER 154 OF 154 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN 1999-315250 [27] WPIDS  
 DNC C1999-093223  
 TI Composition for treating obesity and diabetes comprises a specific beta-3  
 agonist and an anorectic agent.  
 DC B02 B03 C02  
 IN DOW, R L



PA (PFIZ) PFIZER PROD INC  
CYC 30  
PI EP 920864 A1 19990609 (199927)\* EN 20 A61K031-44 <--  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI  
AU 9896055 A 19990624 (199936) A61K031-44 <--  
HU 9802795 A2 19990830 (199940) A61K031-44 <--  
JP 11228447 A 19990824 (199944) 17 A61K045-00 <--  
CA 2255318 A1 19990603 (199947) EN A61K031-44 <--  
KR 99062718 A 19990726 (200043) A61K031-44 <--  
ADT EP 920864 A1 EP 1998-309273 19981112; AU 9896055 A AU 1998-96055 19981202;  
HU 9802795 A2 HU 1998-2795 19981202; JP 11228447 A JP 1998-335819  
19981126; CA 2255318 A1 CA 1998-2255318 19981201; KR 99062718 A KR  
1998-52532 19981202  
PRAI US 1997-67268P 19971203  
IC ICM A61K031-44; A61K045-00  
ICS A61K031-00; A61K031-13; A61K038-00; A61K038-22  
STN INTERNATIONAL LOGOFF AT 15:56:22 ON 18 OCT 2004